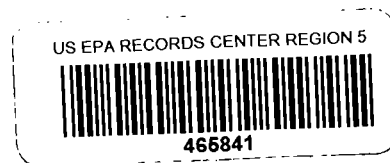


K.4  
12/01



American Chemical Service, Inc.

Griffith, IN

Weekly Construction Meeting Minutes

January 2001 - December 2001

AGENDA  
ACS MEETING AT MW

9:30 A.M., JANUARY 25, 2001

- I. Review Draft Reimbursement Request
- II. Draft RFB for On-Site Drum Removal
- III. ORC Pilot Study  
Sean Grady and John Clark to join by phone at 10 a.m.  
IDEM Review Comments
- IV. Project Schedule ← barrier wall - end San  
extr. trenches - Feb.
- V. Approval Request Forms
- VI. Status of ATMW-4D new lower aquifer  
EE
- VII. Discussion and Summary wells = VAS?  
around  
MW4D

- IS CD entered?

if so, set  
up new

Special acct's.

\* Schedule = 2 wks.  
after entry

South pilot test - ORC.

MW 6 = 100 feet down gradient  
gw flow = 50-100 ft./yr.

IDEM = wants more up grad., side grad, down grad  
wells.

up = <sup>3 mos</sup> monthly, every other month  
side = monthly  
inside = monthly  
MW 6 ~ start 3 mos, quarterly  
water levels in piez's.

**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR FEBRUARY 8, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** February 8, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Groundwater Treatment Plant

**ATTENDEES:**

Chad Gailey - Black & Veatch  
Sean Grady - IDEM  
Todd Lewis - Montgomery Watson  
Rob Adams - Montgomery Watson  
Tom Tinics - Montgomery Watson  
Dick Neumann - Contract Dewatering Services (CDS)  
Jack Field - Koester Environmental Services (KES)  
Jamie - Koester Environmental Services (KES)

**TOPICS**

Health and Safety

- Todd Lewis reminded subcontractors that they are required to notify Montgomery Watson of any accidents.
- Todd Lewis reminded all site personnel to be careful on the Groundwater Treatment Plant driveway. It is icy.

Off-Site Barrier Wall Extraction System Upgrades

- **Extraction Trench Installation:** Dick Neumann of CDS stated that the trencher for installing the extraction trenches is on site and has been tested in the shop. They are planning to use the water that is ponded in the Off-Site Area for installation of the extraction wells. Additional water will be provided by a tanker truck. Todd Lewis advised CDS to comply with load requirements on Colfax Avenue.

Dick Neumann stated that CDS is planning to start extraction well EW-20 this afternoon and finish it on Friday, February 9, 2001. Well EW-19 is scheduled to be installed during the week of February 12, 2001.

Dick Neumann of CDS stated that the manholes for the extraction wells are due on site on February 9, 2001 and they will be set during the week of February 19, 2001. Dick Neumann also stated that they will try to install the

manholes earlier to accommodate KES's schedule for installing the conveyance piping.

- **Conveyance Piping Installation:** Jack Field of KES stated that they have removed the temporary vault containing the conveyance pipe stubs and have marked the piping. They employed a union operator today but are having difficulty finding union laborers. They expect two union laborers tomorrow and should complete penetration and repair of the barrier wall by February 9, 2001. They have encountered large volumes of water inside the barrier wall and are pumping it to the Fire Pond but have not encountered much debris. They have had no air monitoring hits (both PID and LEL). Jack Field stated that they had talked to Tom Froman and he stated that he will have the railroad tracks removed by February 14, 2001. Jack Field stated that they will have the piping under the tracks completed and ready for the ACS Facility to replace the tracks within three days after track removal.

Chad Gailey requested clarification on testing procedures for the conveyance piping and barrier wall penetrations to document that the penetration welds will comply with the 30-year guarantee for the barrier wall. Todd Lewis and Jack Field stated that they would pressure test the piping by sections after welding but prior to burying. Rob Adams provided Chad Gailey a photocopy of KES's pressure testing procedure after the meeting. Todd Lewis stated that KES will use a certified welder therefore Montgomery Watson is not requiring any destructive QC testing on the barrier wall penetration welds. QC will be based on visual observations. The backfill at the pipe penetrations will be 100% bentonite and will meet or exceed the guarantee requirements to preserve any remaining warranties.

Todd Lewis notified KES the Montgomery Watson wants to install two 4-inch and one 2-inch pipe at a depth of 2 feet under the railroad tracks. Montgomery Watson will provide the pipes.

#### Drum Removal

- Todd Lewis stated that the site walk for the drum removal will be conducted on February 14, 2001 and the test trenches/demarcation will commence on February 19, 2001. Also, the subcontractor performing the test trenches/demarcation will be the same subcontractor who performed the Off-Site Material Handling and their existing Health and Safety Plan will be followed.

#### Look Ahead Schedule

- February 8, 2001 – CDS to start installing EW-20.
- February 9, 2001 – CDS to complete EW-20. KES to complete the barrier wall penetration and repair. (Note: this date was later postponed due to weather)



- Week of February 12, 2001 -- CDS to install EW-19 and begin installing manholes. ACS Facility to remove railroad tracks and KES to install conveyance piping under the tracks.
- February 14, 2001 -- Site walk for potential drum removal subcontractors. ACS Facility to remove railroad tracks and KES to install conveyance piping under the tracks.
- Week of February 19, 2001 -- CDS to complete installing manholes. Begin demarcation of buried drums in On-Site Area.

**NEXT MEETING:** Thursday, February 15, 2001 at 10:00 AM at ACS GWTP.

RAA/TAL/PIV/RAA

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**MONTGOMERY WATSON**

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959

Date: 13-Feb-01**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Chad Gailey; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Dick Neumann; Contract Dewatering Services	(219) 924-4561
X	Jack Field; Koester Environmental Services	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100

From: Peter Vagt

Following please find the minutes from the February 8, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, February 15, 2001 at the Groundwater Treatment Plant Building

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

If you do not receive all pages, or if there are any problems with this transmission, please call (630) 836-8900  
Number of pages, including cover: 4

**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR FEBRUARY 22, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** February 22, 2001

**MEETING TIME:** 10:15 AM

**MEETING LOCATION:** ACS Site - Groundwater Treatment Plant

**ATTENDEES:**

Todd Lewis - Montgomery Watson  
Robert Adams - Montgomery Watson  
Lee Orosz - Montgomery Watson  
Tom Tinics - Montgomery Watson  
Jamie - Koester Environmental Services (KES)  
Barry - Contract Dewatering Services (CDS)  
Chad Gailey - Black & Veatch

**TOPICS**

Health and Safety

- The site continued its excellent safety record with no injuries or reportable incidents.
- Todd Lewis reminded KES and CDS that they need to follow the appropriate confined space entry procedures when entering trenches and manholes.
- Security Fencing will be postponed until later next week. Safety tape and snow fence will be used until then.

Off-Site Barrier Wall Extraction System Upgrades

- **Extraction Trench Installation:** Barry of CDS stated that grouting of the manholes that are already installed is complete, and they anticipate completing installation of the EW-19 extraction trench today. They will begin dewatering the east end of EW-20 tomorrow morning for completion of the trench piping. If the piping is not completed Friday then they will stop dewatering at the end of the day and restart on Monday morning.

During the discussion of planned work, it was agreed that personnel will not enter the sub-cut trench for EW-20. If personnel need to enter the trench, the trencher needs to be shut off, Montgomery Watson needs to be notified, and confined space entry procedures are to be followed. Chad Gailey wanted to confirm that CDS will be able to pull the extraction well pin without entering the sub-cut trench. Barry of CDS stated that they will remove the pin with the backhoe and it will not require anybody entering the sub-cut trench.

Barry of CDS stated that they will excavate around the end point of EW-20, insert a trench box, and install a mechanical coupler at the end of the pipe to extend it to ground surface. CDS agreed to follow confined space entry procedures when performing this work. CDS is to notify Montgomery Watson prior to entering the trench box, provide either supplied air or proper ventilation, follow proper atmosphere monitoring in the trench box, and obtain Montgomery Watson approval prior to backfilling so proper construction documentation can be made.

- **Conveyance Piping Installation:** Jamie of KES stated that KES has completed installation of the piping beneath the railroad tracks, including the pipes requested by Montgomery Watson. KES backfilled with crushed stone and compaction testing indicated that they obtained 98% compaction. KES has two pipe penetrations left to complete in the barrier wall and expects to be completed with the penetrations today (February 22, 2001). KES will complete backfilling the trench section on ACS property by the middle of next week, and replace the ACS GWTP vault when pressure testing is complete.

Jamie stated that they will not be ready for Security Fence to install the fence by the railroad tracks until the middle of next week. Lee Orosz will talk to CDS regarding rescheduling the fencing contractor. Jamie stated that KES may be willing to pay for extra fencing costs for this reschedule, if needed.

KES did not have any questions regarding the piping schematics provided by MWCI. These schematics were reviewed by MWCI and MWA and do not materially change the piping plan included in the RFB.

CDS did not install HDPE piping stubs in the manhole, instead they placed capped PVC pipes. KES will run HDPE conveyance piping into the manholes and will ensure that the penetrations are watertight. Jamie anticipated that KES will be at the first manhole next Wednesday or Thursday. CDS will leave the lids off for easier access. Montgomery Watson reminded KES that work inside the manholes would be in a confined space. Jamie stated that KES would provide atmosphere monitoring, use air venting or supplied air, and provide Montgomery Watson with copies of their confined space entry documentation.

#### Look Ahead Schedule

- February 23, 2001 – Drum delineation work completed.
- Mid-March 2001 – Koester to be complete.

**NEXT MEETING:** Thursday, March 1, 2001 at 10:00 AM at ACS GWTP.

JRR/RAA/PJV

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FAX

**MONTGOMERY WATSON**

27755 Diehl Road  
Suite 300  
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Date: 27-Feb-01**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Chad Gailey; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Dick Neumann; Contract Dewatering Services	(219) 924-4561
X	Jack Field; Koester Environmental Services	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100

From: Peter Vagt

Following please find the minutes from the February 22, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, March 1, 2001 at the Groundwater Treatment Plant Building

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

If you do not receive all pages, or if there are any problems with this transmission, please call (630) 836-8900  
Number of pages, including cover: 4

**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR MARCH 1, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** March 1, 2001

**MEETING TIME:** 10:15 AM

**MEETING LOCATION:** ACS Site – Groundwater Treatment Plant (GWTP)

**ATTENDEES:**

Robert Adams – Montgomery Watson  
Lee Orosz - Montgomery Watson  
Tom Tinics – Montgomery Watson  
Jomo Reynolds –Montgomery Watson  
Jarnie – Koester Environmental Services (KES)  
Jack Field – Koester Environmental Services (KES)  
Dick Nuemann – Contract Dewatering Services (CDS)  
Chad Gailey – Black & Veatch  
Heather Foesh – Black & Veatch

**TOPICS**

Health and Safety

- Tom Tinics reminded everyone of the following site health and safety policies: everyone is to sign in daily; nobody is to smoke in the GWTP, on ACS property, or within any work area; and the work areas are to be kept clean to avoid hazards including slip/trip/fall and for general appearance.
- Keoster did not detect any air monitoring readings with the PID; however, CDS did encounter low readings last week while installing extraction trench EW-19.
- CDS was reminded to remember the capabilities of their on-site equipment; and if any complications are encountered CDS should develop a plan to overcome the situation, discuss it with Montgomery Watson, and proceed safely.
- Chad Gailey reminded everyone that the OSHA confined space entry will apply during the EW-20 cleanout reconnection.
- Chad Gailey stated that permitted confined space entry is regulated by OSHA's industrial requirements; not construction requirements.

Off-Site Barrier Wall Extraction System Upgrades

- **Extraction Trench Installation:**  
Dick Neumann informed everyone that the EW-20 vaults have been grouted and dewatering of the clean out has begun. Tom Tinics informed everyone that well screens extend above the vault floor in two of the extraction wells.

Montgomery Watson and CDS agreed to discuss plans for dealing with these well screens and the water testing requirements for the new vaults. Dick Neumann stated that CDS will locate, cut, and attach new tile to the end of EW-20 and will slope it back and leave it above ground for the cleanout. Dick Neumann agreed to use an HNU (PID) and air-venting during confined space entry. Lee Orosz stated that MWCI's air ventilator is available for use. Tom Tinics stated that he wanted to have a copy of CDS's confined space documents.

Dick Neumann informed Keoster that the penetrations on EW-19 are facing to the northeast. Dick Neumann stated to the alignment of these penetrations was directed by Lee Orosz. Tom Tinics directed Dick Neumann to the make penetrations on the remaining EW-19 well vaults face the same direction.

Tom Tinics reminded CDS that their equipment needs to be decontaminated following typical site procedures (pressure wash) and that decontamination is to be conducted such that the decontamination water does not run off the site. Dick Neumann agreed to leave the 2-inch hose in place at the site. Dick Neumann requested that all requests and direction from Montgomery Watson go through him - not directly to his crew of subcontractors.

- **Conveyance Piping Installation:**

Jamie of KES informed everyone that the conveyance pipe sections from the GWTP to the railroad were tested and backfilled. An air test was performed and the pipes held up to 95 psi of pressure for a designated amount of time. Bentonite was used to backfill at barrier wall connections. KES is currently welding the 8-inch and 2-inch lines in the Off-Site Area. Jamie stated that KES will use Type 57 stone to backfill in areas of poor native soil and sand to backfill in areas with debris.

Jamie of KES will submit the results of the compaction tests at the railroad tracks in the completion report, but will also provide the results to Montgomery Watson so that Montgomery Watson can give them to the ACS Facility. Tom Tinics agreed to provide additional information on the well pump details.

Lee informed KES that debris may be encountered in the Off-Site Area and to be prepared to go into Level C PPE.

**Look Ahead Schedule**

- March 9, 2001 - CDS should be complete and demobilized from Site.
- Mid-March 2001 - Koester is expected to have complete their work and demobilized from Site.

**NEXT MEETING:** Thursday, March 8, 2001 at 10:00 AM at ACS GWTP.

JRR/TMK/RAA/PJV/RAA  
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FAX

**MONTGOMERY WATSON**

27755 Diehl Road  
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Warrenville, IL 60555  
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Date: 6-Mar-01

**TO: Construction Meeting Minutes Distribution List****Fax Number**

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<input checked="" type="checkbox"/>	Sean Grady; IDEM	(317) 234-0428
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<input checked="" type="checkbox"/>	Rob Adams; Montgomery Watson	(630) 836-8959
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<input checked="" type="checkbox"/>	Dick Neumann; Contract Dewatering Services	(219) 924-4561
<input checked="" type="checkbox"/>	Jack Field; Koester Environmental Services	(219) 924-4561
<input checked="" type="checkbox"/>	Joe Adams; Montgomery Watson	(303) 410-4100
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From: Peter Vagt

Following please find the minutes from the March 1, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, March 8, 2001 at the Groundwater Treatment Plant Building.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR MARCH 8, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** March 8, 2001

**MEETING TIME:** 10:30 AM

**MEETING LOCATION:** ACS Site – Groundwater Treatment Plant (GWTP)

**ATTENDEES:**

Robert Adams – Montgomery Watson  
Tom Tinics – Montgomery Watson  
Jamie Bergerson – Koester Environmental Services (KES)  
Chad Gailey – Black & Veatch

**TOPICS**

Health and Safety

- Tom Tinics reminded KES to continue their daily Tail Gate Safety Meetings and not to manually force equipment materials
- Tom Tinics reminded KES to be prepared to go to Level C PPE if needed.
- Tom Tinics reminded KES that even though their existing and previous trenches have not been confined spaces due to shallowness and width, work within and around their trenches should be conducted carefully and KES needs to be aware when they enter into a confined space situation.

Off-Site Barrier Wall Extraction System Upgrades

• **Extraction Trench Installation:**

The extraction trenches were developed with a vacuum truck on Wednesday, March 7, 2001, and CDS is significantly complete with installation of extraction trench EW-19 and EW-20, extraction well point #13A is also complete. Remaining tasks include test-out, final cleanup, and demobilization.

The extraction trenches were developed with a vacuum truck on Wednesday, March 7, 2001, and verified by Jomo Reynolds of Montgomery Watson Americas.

CDS or another subcontractor will be brought back on site to finish installation of the clean-out for extraction trench EW-20 when the Off-Site Area has been dewatered sufficiently to allow access to the end of the collection pipe.

- **Conveyance Piping Installation:**

KES continued installation of the conveyance piping in the Off-Site Area. Piping on the West side of the Off-Site Area (EW-11, EW-12, and EW-13A) is complete except for backfilling a 150-foot section of trench. KES encountered debris while piping to the OFCA ISVE blower shed. In addition, they reported encountering rusted metal and drum carcasses in the area where test pits previously indicated buried drum carcasses. KES was reminded that much of the Off-Site Area was landfilled, since there was no fence along the property line bordering the Town landfill. MW recommended that the depth of the piping be shallowed to avoid digging up debris in the future. KES is currently backfilling this section of piping. KES is currently making the piping penetrations for the extraction wells on the East side of the Off-Site Area (EW-15, EW-16, EW-19, and EW-19a) and expect to complete the penetrations today (March 8, 2001).

KES has been placing debris that is encountered while trenching in the Site debris pile. Tom Tinics has allowed KES to use the clean sand currently stockpiled on the site for backfill.

Look Ahead Schedule

- March 12, 2001 – KES to install extraction well pumps.
- March 16, 2001 – KES to be substantially complete.
- Week of March 19<sup>th</sup> 2001 – Begin installation of the drum containment pad.
- Week of March 19<sup>th</sup> 2001 – Begin clearing and grubbing of the Off-Site Area for installation of the temporary cover.

**NEXT MEETING:** Thursday, March 15, 2001 at 10:00 AM at ACS GWTP.

RAA/PIV/TT  
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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR APRIL 8, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** April 8, 2001

**MEETING TIME:** 10:30 AM

**MEETING LOCATION:** ACS Site - Groundwater Treatment Plant (GWTP)

**ATTENDEES:**

Robert Adams - Montgomery Watson  
Tom Tinics - Montgomery Watson  
Peter Vagt - Montgomery Watson  
Chad Gailey - Black & Veatch

**TOPICS**

Health and Safety

- Chad Gailey stated that he observed someone operating a backhoe and trenching soil without a partner near the drum staging pad. Chad Gailey stated that he tried to question the person and determine if he had proper OSHA training but the person ignored him and proceeded to the drum staging pad. Chad Gailey also stated that he borrowed a photoionization detector (PID) from Montgomery Watson for air monitoring near the trench. He stated that he observed minor detections with the PID. Chad Gailey provided a photograph of the unidentified person excavating the trench. Tom Tinics did not recognize the person and stated that Montgomery Watson had performed air monitoring with a PID in the area earlier in the day and did not observe any detections. After the meeting we identified the backhoe as one owned by Ryan construction. Tom Tinics will meet talk to Ryan before the next Site meeting to hear their explanation of the occurrence.

Pete Vagt stated that, irregardless if the unidentified person was associated with the Final Remedy or not, the next tailgate safety meeting should include the following topics: use of the buddy system when working, notifying Montgomery Watson of any changes in work tasks, and general health and safety procedures for excavating in contaminated areas. Pete Vagt also recommended that we develop a standard check list of items to be mentioned at every tailgate safety meeting. The list should include items such as the prohibition on smoking while inside the ACS facility and general procedures such as using the buddy system for any site work.

General Site Management

- Tom Tinics stated that an office trailer is currently on site and that stairs for the trailer will be completed next Monday (April 16, 2001). Tom Tinics stated that phone lines and electrical power would also be installed shortly and that the job computers, fax machine, and photocopier would be moved over to the trailer. Pete Vagt asked Chad Gailey if he had any specific equipment requests for the trailer. Chad Gailey stated that he only needed a phone and some desk space to be available on an as-needed basis.
- Pete Vagt stated that regular formal construction meetings should be continued again on a weekly basis to help keep all parties informed of the status of each remedial component. Montgomery Watson will also send copies of work plans to Black & Veatch and the Agencies with sufficient time to review them prior to starting a new task.

Temporary Cover, Spoils Piles, IDW Drums

- Pete Vagt stated that he had faxed a copy of the IDW Drum Management Plan to Larry Campbell of Black & Veatch. Kevin Adler, U.S. EPA, had provided some preliminary feedback on health and safety procedures for the work. Pete Vagt stated that as soon as we get further feedback from Black & Veatch and IDEM, Montgomery Watson will redraft the plan and submit it to obtain written approval. Tom Tinics stated that he intended the drums containing personal protection equipment (PPE) will be crushed and placed under the cover with the other IDW drums.
- Chad Gailey inquired about the purpose of the Notice of Intent (NOI) and Stormwater Pollution Prevention Plan (SWPPP) for installation of the temporary cover in the Off-Site area. Rob Adams stated that the documents were required by Indiana's NPDES regulations for earthwork sites over 5 acres, and that while work on a Superfund Site does not require the actual permit, we do need to provide evidence that we are working in compliance with the regulations. (The NOI is a mechanism to notify Indiana of the work and the SWPPP is a living document that does not need to be submitted but must be maintained at the site and to show we are complying with the storm water regulations of the State.
- Chad Gailey inquired about daily cover procedures planned for the spoils pile consolidation. Tom Tinics stated that the work was anticipated to take less than one day and that this would not be an issue. Pete Vagt suggested that Tom Tinics develop a contingency plan for daily cover if the work takes longer than one day.

Drum Removal

- Tom Tinics stated that he was working with Tom Froman of the ACS Facility to coordinate Health and Safety procedures. ACS will perform its own air monitoring for its employees and they are increasing current production in case they need to shutdown temporarily.

Look Ahead Schedule

- April 16, 2001 - Kick-off meeting for drum removal (After the meeting, Koester decided to postpone site mobilization for a week, until April 23<sup>rd</sup>.)
- April 23, 2001 - Begin excavation for drum removal (Because of Koester's postponement of mobilization, this date will also be delayed by one week).

**NEXT MEETING:** Thursday, April 18, 2001 at 10:00 AM at ACS GWTP.

RAA/PJV

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**FAX****MONTGOMERY WATSON**

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Date: 18-Apr-01

**TO: Construction Meeting Minutes Distribution List****Fax Number**

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<input checked="" type="checkbox"/>	Sean Grady; IDEM	(317) 234-0428
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<input checked="" type="checkbox"/>	Joe Adams; Montgomery Watson	(303) 410-4100
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From: Peter Vagt

Following please find the minutes from the April 12, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, April 18, 2001 at  
Montgomery Watson's Warrenville, Illinois office

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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# FIELD UPDATE 1

## ACS NPL SITE RD/RA

February 5, 2001

Remedial Activities planned for the ACS NPL Site RD/RA for 2001 include:

- Installing the barrier wall
- Installing extraction trenches
- Sediment Removal
- On-Site Drum Removal
- Off-Site Area Dewatering
- Off-Site Area SVE System

Contract De-Dewatering Services (CDS) from Saranac Michigan was subcontracted to install the separation slurry wall and to install two additional groundwater extraction trenches in the Off-Site Area.

CDS mobilized to the site in December. They were able to complete site preparation work by the end of the month, but several snow falls and a week of sub zero weather delayed start up of the trenching.

Trenching technology was selected to install the barrier wall, over sheet piling and conventional backhoe slurry wall construction because it is quick, minimizes the amount of open excavating, eliminates the need to dewater and can perform in the limited space available.

The 750-foot-long separation barrier wall was completed mid-afternoon on Thursday, February 1, 2000. CDS has demobilized the slurry wall trencher and has also mobilized the second trencher to the site for the extraction trenches.

Activities planned for February and March include:

- Site Preparation for the On-Site Drum removal,
- Active lowering of the water table on the Off-Site Area,
- Site Preparation for the Drum Removal,
- Planning the implementation of the Off-Site Area SVE System.
- Bidding tasks for Off-Site Cap Construction, and
- Groundwater Monitoring.

## Separation Barrier Wall Completed on February 1



There were several steps to installing the separation barrier wall by trenching. First, a trench 3 feet wide and 3 feet deep was cut along the alignment for the barrier wall. Then a layer of dry bentonite powder was placed in the trench. The bentonite thickness was calculated to provide the 4 percent bentonite-to-sand ratio that lab tests showed will yield better than  $10^{-7}$  cm/sec permeability of the slurry wall.

In the photo above, the trencher is making its first cut from ground surface, down into the trench alignment. The trenching boom is 27 feet long. In the photo, it is cutting down through the dry bentonite powder to be hydrated by the underlying groundwater.

The photo below shows the trencher moving away from the camera position, cutting the barrier wall 24 feet deep, through the upper aquifer and two feet into the confining clay layer below. The trenching boom is obscured by the sand and slurry mix being thrown up in the center of the photo. The engineer on the right hand side is taking HNu readings to confirm safe breathing conditions. The red hose in the foreground is feeding clean water which assists the soil cutting and hydrating the bentonite in the trench.





## FIELD UPDATE 2

### ACS NPL SITE RD/RA

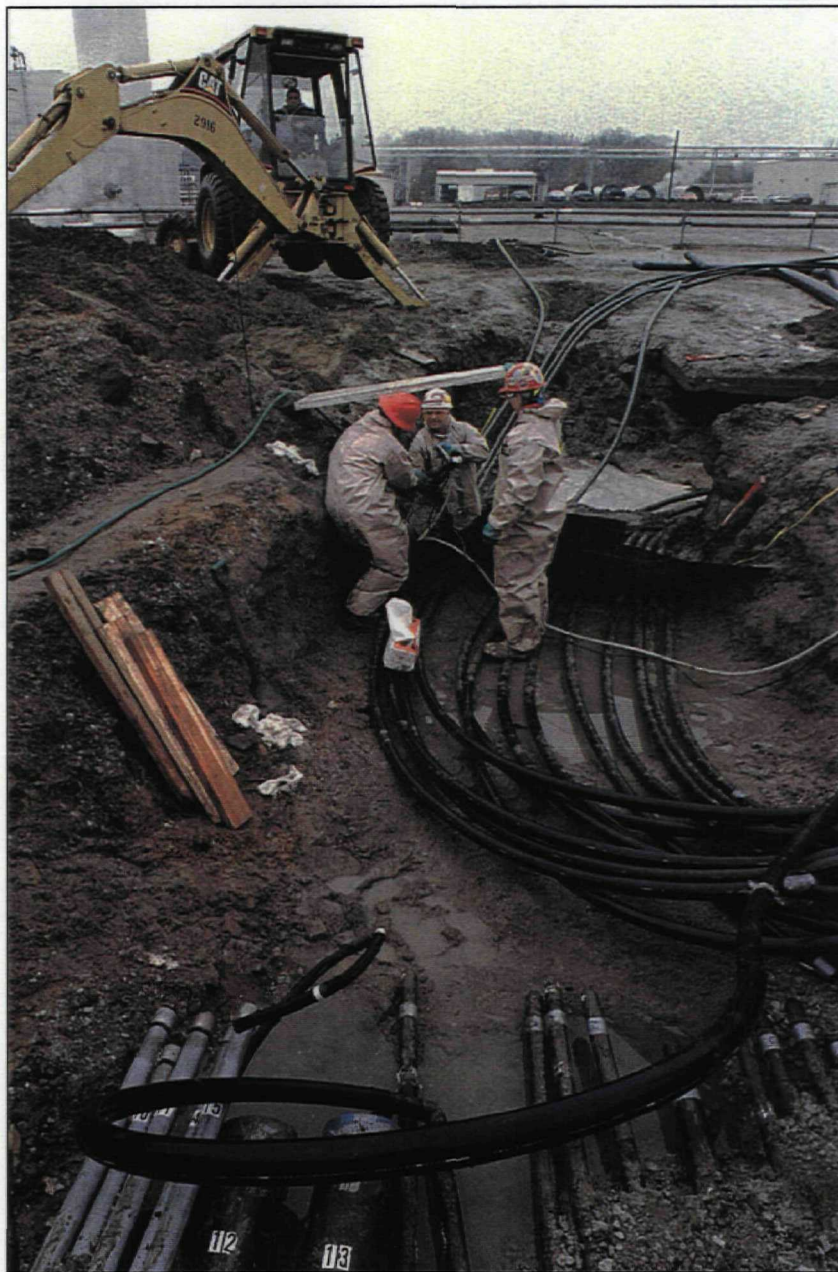
February 19, 2001

Montgomery Watson conducted a site-walk for firms planning to provide bids for conducting the Drum Removal from the ACS facility. In this photo Construction Manager Todd

Lewis is shown in the center pointing out the areas where geophysical surveys indicate drums may be buried.



### Koester Environmental Installs New Extraction Piping through the Site Barrier Wall



In 1997, the 4,500 foot barrier wall was completed surrounding the 28 acre ACS NPL Site. The barrier wall consists of a bentonite slurry and a high density polyethylene (HDPE) liner and it is keyed into the clay confining layer located approximately 20 feet below ground surface.

There are currently eight extraction trenches which collect contaminated groundwater from inside the barrier wall and transport it to the Groundwater Treatment Plant. In preparation for the drum removal and the installation of the Soil Vapor Extraction (SVE) System, Montgomery Watson is installing additional extraction trenches.

In this photo, three workers are installing new HDPE pipes through the barrier wall. These will be connected to the new extraction points inside the barrier wall.

First, the workers excavated a trench to expose the top of the barrier wall. Next they cut holes near the top of the barrier wall and placed the pipes through it. Here, they are sealing the junctures where the pipes pass through the barrier wall. Next, they will connect the black HDPE pipes to the pipes in the foreground that lead into the Groundwater Treatment Plant located behind the camera position.



MONTGOMERY WATSON

Peter Vagt (630) 836-8923 Email: Peter.Vagt@MW.com



# FIELD UPDATE 3

## ACS NPL SITE RD/RA

March 12, 2001

Geophysical investigations conducted in the ACS Facility in 1998 showed three areas potentially containing buried drums (the areas were labeled A, B, and C). During the week of February 19, 2001, trenches were made in each area to demark the lateral extent of drums to be removed under the Consent Decree.

The trenching showed that Area A (photo to the right) and Area B are essentially as defined by the geophysics. During the geophysical survey, there were five semi-trailers parked on Area C, leading to uncertain results there. The trenching showed that Area C does not contain any buried drums.

Bids to conduct the drum removal have been received and the work will proceed later this spring.

### Drum Delineation Excavations Confirm Geophysical Surveys



### Two Extraction Trenches Added to Increase Dewatering Capabilities inside Barrier Wall



A soil vapor extraction system (SVE) system will be installed in the Off-Site Containment Area later this year. Optimal operation of the system will require dewatering the source material in the ground there.

The first step in preparing to dewater the Off-Site Area was constructing a slurry wall barrier separating the north and south halves of the Site (see Update 2, February 19, 2001). The next step was to install two additional groundwater extraction trenches to increase dewatering capacity inside the barrier wall. Simultaneously, yard piping is being installed to connect the new trenches and the future SVE equipment to the treatment equipment in the Treatment Building.

The extraction trenches were installed during February using the "single pass" method, which reduced material handling and eliminated construction dewatering. The first trench was 350 feet long, completed just to the south of the new separation barrier wall. This photo shows the second trench as it was being installed to a depth of 30 feet on February 21. It is 150 feet long, located 50 feet inside the barrier wall, parallel to Colfax Avenue. The entire excavation has now been backfilled and only the top of the pipe on the near end remains visible.

New pumps will be installed in both the new and existing extraction trenches.



MONTGOMERY WATSON

Peter Vagt (630) 836-8923 Email: Peter.Vagt@MW.com



**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR APRIL 8, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** April 8, 2001

**MEETING TIME:** 10:30 AM

**MEETING LOCATION:** ACS Site – Groundwater Treatment Plant (GWTP)

**ATTENDEES:**

Robert Adams – Montgomery Watson  
Tom Tinics – Montgomery Watson  
Peter Vagt – Montgomery Watson  
Chad Gailey – Black & Veatch

**TOPICS**

Health and Safety

- Chad Gailey stated that he observed someone operating a backhoe and trenching soil without a partner near the drum staging pad. Chad Gailey stated that he tried to question the person and determine if he had proper OSHA training but the person ignored him and proceeded to the drum staging pad. Chad Gailey also stated that he borrowed a photoionization detector (PID) from Montgomery Watson for air monitoring near the trench. He stated that he observed minor detections with the PID. Chad Gailey provided a photograph of the unidentified person excavating the trench. Tom Tinics did not recognize the person and stated that Montgomery Watson had performed air monitoring with a PID in the area earlier in the day and did not observe any detections. After the meeting we identified the backhoe as one owned by Ryan construction. Tom Tinics will meet talk to Ryan before the next Site meeting to hear their explanation of the occurrence.

Pete Vagt stated that, irregardless if the unidentified person was associated with the Final Remedy or not, the next tailgate safety meeting should include the following topics: use of the buddy system when working, notifying Montgomery Watson of any changes in work tasks, and general health and safety procedures for excavating in contaminated areas. Pete Vagt also recommended that we develop a standard check list of items to be mentioned at every tailgate safety meeting. The list should include items such as the prohibition on smoking while inside the ACS facility and general procedures such as using the buddy system for any site work.

### General Site Management

- Tom Tinics stated that an office trailer is currently on site and that stairs for the trailer will be completed next Monday (April 16, 2001). Tom Tinics stated that phone lines and electrical power would also be installed shortly and that the job computers, fax machine, and photocopier would be moved over to the trailer. Pete Vagt asked Chad Gailey if he had any specific equipment requests for the trailer. Chad Gailey stated that he only needed a phone and some desk space to be available on an as-needed basis.
- Pete Vagt stated that regular formal construction meetings should be continued again on a weekly basis to help keep all parties informed of the status of each remedial component. Montgomery Watson will also send copies of work plans to Black & Veatch and the Agencies with sufficient time to review them prior to starting a new task.

### Temporary Cover, Spoils Piles, IDW Drums

- Pete Vagt stated that he had faxed a copy of the IDW Drum Management Plan to Larry Campbell of Black & Veatch. Kevin Adler, U.S. EPA, had provided some preliminary feedback on health and safety procedures for the work. Pete Vagt stated that as soon as we get further feedback from Black & Veatch and IDEM, Montgomery Watson will redraft the plan and submit it to obtain written approval. Tom Tinics stated that he intended the drums containing personal protection equipment (PPE) will be crushed and placed under the cover with the other IDW drums.
- Chad Gailey inquired about the purpose of the Notice of Intent (NOI) and Stormwater Pollution Prevention Plan (SWPPP) for installation of the temporary cover in the Off-Site area. Rob Adams stated that the documents were required by Indiana's NPDES regulations for earthwork sites over 5 acres, and that while work on a Superfund Site does not require the actual permit, we do need to provide evidence that we are working in compliance with the regulations. (The NOI is a mechanism to notify Indiana of the work and the SWPPP is a living document that does not need to be submitted but must be maintained at the site and to show we are complying with the storm water regulations of the State.
- Chad Gailey inquired about daily cover procedures planned for the spoils pile consolidation. Tom Tinics stated that the work was anticipated to take less than one day and that this would not be an issue. Pete Vagt suggested that Tom Tinics develop a contingency plan for daily cover if the work takes longer than one day.

### Drum Removal

- Tom Tinics stated that he was working with Tom Froman of the ACS Facility to coordinate Health and Safety procedures. ACS will perform its own air monitoring for its employees and they are increasing current production in case they need to shutdown temporarily.

Look Ahead Schedule

- April 16, 2001 – Kick-off meeting for drum removal (After the meeting, Koester decided to postpone site mobilization for a week, until April 23<sup>rd</sup>.)
- April 23, 2001 – Begin excavation for drum removal (Because of Koester's postponement of mobilization, this date will also be delayed by one week).

**NEXT MEETING:** Thursday, April 18, 2001 at 10:00 AM at ACS GWTP.

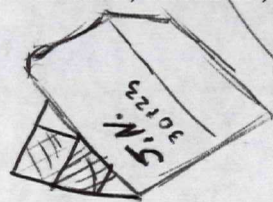
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AGENDA  
WEEKLY CONSTRUCTION MEETING  
AT MW OFFICE IN WARRENVILLE, IL

10 A.M., APRIL 19, 2001



65122  
Rosemary  
McCormick  
(248)  
634-4613

I. Recap of Last Week's Meeting at the Site

II. Air Monitoring Plan

II. Status of Drum Pad #1

sump to treatment plt.

III. Project Schedule

IV. Drum Removal Work Plan

V. Database Format for Drum Removal

VI. Schedule for next Week's meetings

- Koester Mobilization & Kick-off Meeting
- Regular Site Construction Meeting

12pm  
M/Wed.  
Thurs - 10am

VII. Miscellaneous

- IDW drum management procedure
- ATMW-4D Well abandonment
- South Area ORC Pilot Study

~40 drums/day.

5 days/wk \* 10 hrs/day.

7am. trail gate.

Level B.

Mobile: 4/23 ~ 9 am

start 4/26

w/ area A.

60 days

Jim Dayone Public WKS.  
(219) 24-3888

Town of Griffith

(219) 838-5678

Town Hall

(219) 924-7503

4/26

1. drum rmul
2. ORC
3. silt fence
4. drum pad
5. IDW area
6. Constr. mtg.

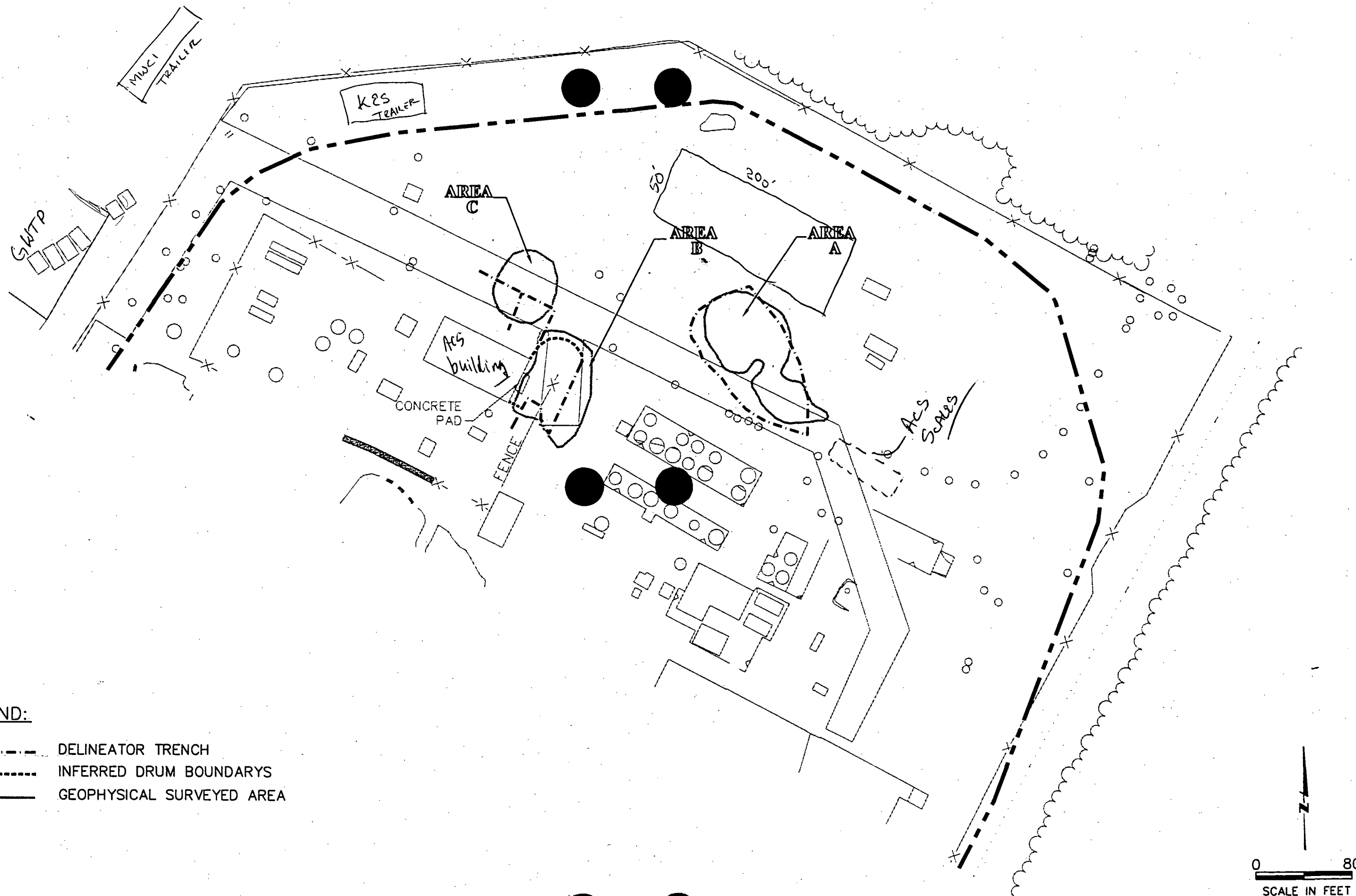
Michael Gully  
President: pt.-time

924-7503  
Police Dept

150 police office

**LEGEND:**

- DELINEATOR TRENCH
- INFERRED DRUM BOUNDARYS
- GEOPHYSICAL SURVEYED AREA



SCALE  
AS SHOWN



**MONTGOMERY WATSON**  
CHICAGO, ILLINOIS

ACS RD/RA GROUP  
AMERICAN CHEMICAL SERVICE SUPERFUND SITE  
GRIFFITH, INDIANA

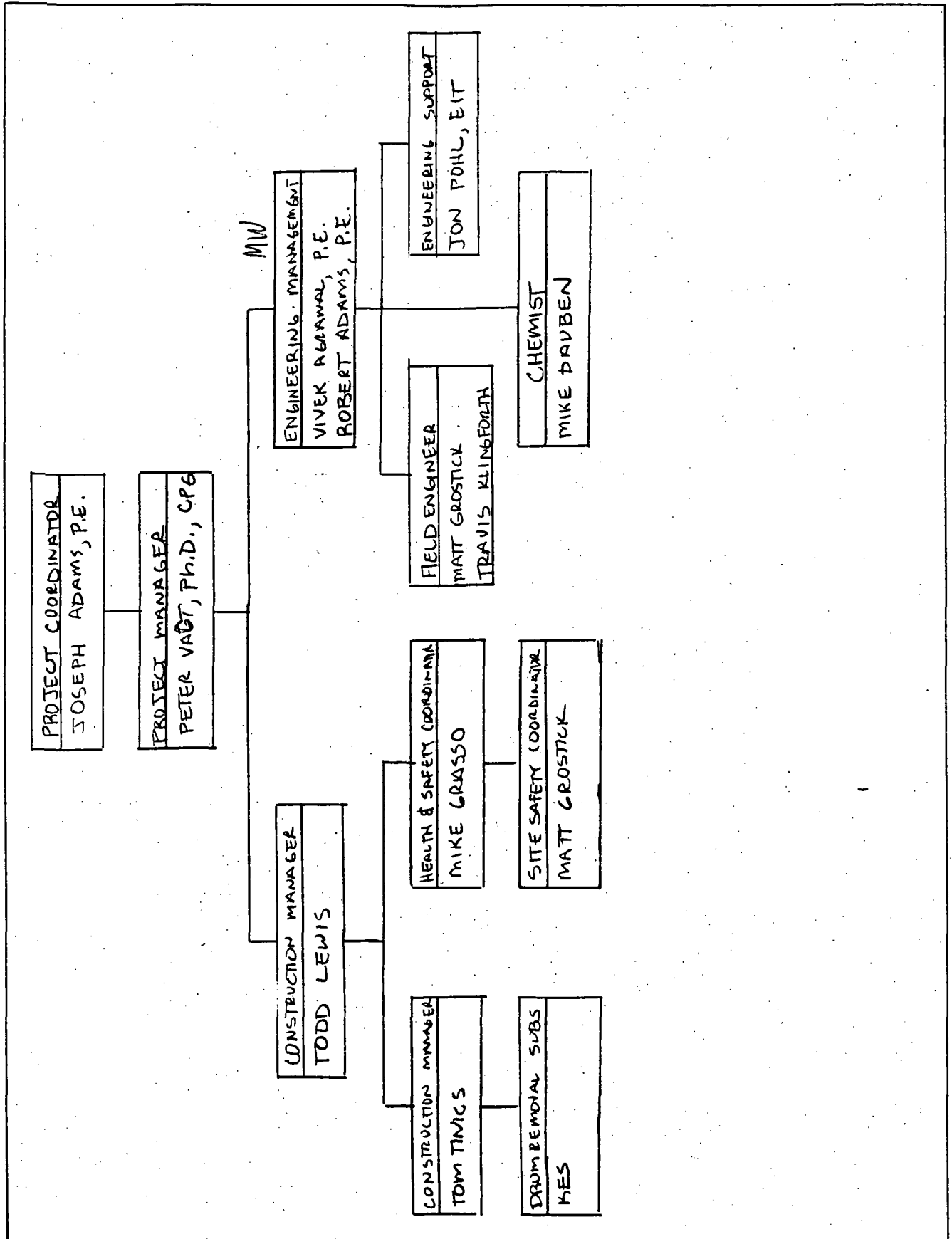
ON-SITE AREA  
DRUM DELINEATION RESULTS  
2/23/2001

SHEET  
C-3



# MONTGOMERY WATSON

By BAA Date 4/16/01 Client ACS Sheet 1 of 1  
Chkd. By                      Description DRUM REMOVAL ORG CHART Job No. 2090601





**ACTION ITEMS FROM  
WEEKLY CONSTRUCTION MEETING - APRIL 19, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** April 19, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** Montgomery Watson, Warrenville, Illinois Office

**ATTENDEES:**

Kevin Adler - U.S. EPA  
Sean Grady - IDEM (Telephone)  
Chad Gailey - Black & Veatch  
Robert Adams - Montgomery Watson  
Tom Tinics - Montgomery Watson  
Peter Vagt - Montgomery Watson  
Matt Grostick - Montgomery Watson (Telephone)  
Tom Froman - ACS (Telephone)  
Jan Schuler - Koester  
Erin Blankenberger - Koester (Telephone)  
Doye Cox - Koester (Telephone)  
Maureen Handler - Koester (Telephone)

**ACTION ITEMS**

Health and Safety

- Montgomery Watson will complete Health & Safety Memorandum integrating Montgomery Watson, ACS Facility, and Koester Environmental Services (KES) individual Health & Safety Plans.
- KES will bring to site their respirator fit test documentation complying with current OSHA regulations.
- Montgomery Watson will bring to site respirator fit test documentation complying with current OSHA regulations.
- Montgomery Watson will setup designated shelf space for the Health & Safety Plan and supporting documentation.
- Montgomery Watson will develop a checklist and sign in sheet for daily tailgate (toolbox) health and safety briefings.

Drum Removal

- Montgomery Watson will provide Weekly Update #4 to U.S. EPA. Weekly Update #4 will contain information regarding the proposed drum removal.



- U.S. EPA will distribute Weekly Update #4 to the standard mailing list and telephone the Town of Griffith "Father's and Mothers".
- Montgomery Watson will notify Griffith Fire Chief George Thiel (219-924-7500-32) of the drum removal by Monday, April 23, 2001 and invite him to the Safety Meeting on April 23, 2001. Montgomery Watson will also obtain Police Department contact information from Griffith Fire Department and notify Police Department.
- KES will update their organization chart showing the revised reporting roles and for their site safety personnel by April 23, 2001.
- Montgomery Watson will develop a phone and contact list for project staff. This list will include office phone, home phone/hotel phone, mobile phone, and fax numbers for Montgomery Watson, KES, U.S. EPA, IDEM, and Black & Veatch. The list will be completed at the Pre-construction Meeting and finalized by April 26, 2001 (Start of Excavation).
- KES will update their Hospital Route Map.
- KES will notify the hospitals of the drum removal work.
- KES will revise their Work Plan and Health and Safety Plan to address Agency comments.

#### Look Ahead Schedule

- April 23, 2001 - KES will mobilize at 8:30 AM. Pre-Construction meeting at 2:00 PM.
- April 25, 2001 - Health & Safety Kick-off Meeting for Drum Removal at 10:00 AM. To include ACS Facility, KES personnel, MWA personnel, and Agency oversight personnel. This meeting will include driving the route to the hospital.
- April 26, 2001 - Begin excavation for drum removal. Weekly Construction Meeting at 10:00 AM
- General Drum Removal Schedule Information:
  - Anticipate working 10 hours/day, 5 days/week.
  - Daily Tailgate Safety Meeting @ 7:00 AM. Anticipate working until 5:00 PM
  - Anticipated Duration: 2 Months (Based on 40 drums per day).

**NEXT MEETING:** Thursday, April 26, 2001 at 10:00 AM at ACS Construction Trailer.

RAA/PIV  
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A X

**MONTGOMERY WATSON**Date: 20-Apr-0127755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Chad Gailey; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100
X	Matt Grostick; Montgomery Watson	(404) 236-7405
X	Tom Froman; ACS	(219) 924-5298
X	Doye Cox; Koester	(812) 867-4478
X	Maureen Handler; Koester	(812) 867-4478
X	Jan Schuler; Koester	(812) 867-4478
X	Erin Blankenberger; Koester	(812) 867-4478

From: Peter Vagt

Following please find the action items from the April 18, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, April 26, 2001 at the construction trailer at the ACS Site

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

If you do not receive all pages, or if there are any problems with this transmission, please call (630) 836-8900  
Number of pages, including cover: 3

**ACTION ITEMS FROM  
WEEKLY CONSTRUCTION MEETING – APRIL 26, 2001  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** April 26, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** Site Trailer, ACS NPL Site

**ATTENDEES:**

Kevin Adler – U.S. EPA  
Sean Grady - IDEM  
Larry Campbell – Black & Veatch  
Margaret Mulkerrin – Black & Veatch  
Robert Adams – Montgomery Watson  
Travis Klingforth – Montgomery Watson  
Lee Orosz – Montgomery Watson  
Matt Grostick - Montgomery Watson  
Tom Timics – Montgomery Watson  
Peter Vagt – Montgomery Watson  
Maureen Handler – Koester

**ACTION ITEMS**

Health and Safety

- The Health & Safety Memorandum integrating Montgomery Watson, ACS Facility, and Koester Environmental Services (KES) individual Health & Safety Plans is complete and will be distributed to the Agencies.
- KES has brought their respirator fit test documentation to the site. In addition, KES personnel will be re-fit tested specifically for the Drum Removal by the KES corporate Certified Industrial Hygienist.
- Montgomery Watson personnel will be re-fit tested specifically for the Drum Removal by the Montgomery Watson Site Safety Coordinator. Montgomery Watson personnel will be fit tested for the SCBA equipment by representatives from Hazco.
- Kevin Adler requested that the air monitoring results be submitted to him every two weeks.
- The air monitoring results will be submitted to the ACS facility by 5:30 PM the day of sampling.

Drum Removal

- Montgomery Watson has completed the Field Update #4. U.S. EPA will distribute copies to the standard mailing list and telephone the Township

Supervisor. Copies will be distributed by the Agencies on Monday, April 30, 2001.

Look Ahead Schedule

- May 3, 2001 – Weekly Construction Meeting

**NEXT MEETING:** Thursday, May 3, 2001 at 10:00 AM at ACS Construction Trailer.

RAA

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**ACTION ITEMS FROM  
WEEKLY CONSTRUCTION MEETING - MAY 3, 2001  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** May 3, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** Site Trailer, ACS NPL Site

**ATTENDEES:**

Barbara Magel – ACS RD/RA Executive Committee  
Larry Campbell – Black & Veatch  
Margaret Mulkerrin – Black & Veatch  
Robert Adams – Montgomery Watson  
Matt Grostick - Montgomery Watson  
Travis Klingforth – Montgomery Watson  
Todd Lewis – Montgomery Watson  
Rick Mueller – Montgomery Watson  
Lee Orosz – Montgomery Watson  
Tom Tinies – Montgomery Watson  
Peter Vagt – Montgomery Watson  
Doug Draia ACS  
Maureen Handler – Koester

**ACTION ITEMS**

Health and Safety

- KES will expand the role of its Safety Coordinator during the daily tailgate safety meetings. This may include reviewing the previous air monitoring results, leading discussion of actions/conditions observed in recent past, etc.
- Doug Draia needs to give personnel that are new to the site the ACS facility health and safety introduction/training.
- Reporters are not to be allowed in the exclusion zone. Notify Pete Vagt or the designated Montgomery Watson personnel if reporters are observed at the site.
- KES is to require that all delivery personnel are properly equipped with proper PPE.

General Site Update

- Montgomery Watson will provide a large site map in the trailer for reference.
- Monitoring Well W-1 is scheduled to be abandoned in accordance with state regulations starting may 14, 2001.

- ORC® installation is scheduled to be completed by the middle of next week (Week of May 7, 2001).
- The SWPPP and NOI are currently undergoing internal Montgomery Watson review. The NOI will be submitted to Sean Grady next week (Week of May 7, 2001).

#### Drum Removal

- ACS will test their emergency alert system on at 7:00 AM on Monday, May 7, 2001.
- Montgomery Watson is archiving the drum samples in the Filter Press Room of the GWTP. This room is cooler than the originally proposed location and has its own secondary containment area.
- Production as of May 2, 2001:
  - Intact drums overpacked: 46
  - Non-intact drums placed into roll-off boxes: 333
  - Drums sampled: 38
  - Soil debris placed into Fire Pond: 268.5 cubic yards
- KES anticipates to be completed with Area A by May 11, 2001

#### Look Ahead Schedule

- Week of May 7, 2001 Complete installation of ORC®
- May 10, 2001 – Weekly Construction Meeting
- May 10, 2001 – Submit NOI for installation of the Temporary Cover in the Off-Site Area to Sean Grady
- May 11, 2001 – KES anticipates being complete with Area A.
- May 14, 2001 – Begin installation of erosion control measures for installation of the Temporary Cover in the Off-Site Area
- May 14, 2001 – Begin abandonment of Monitoring Well W-1

**NEXT MEETING:** Thursday, May 10, 2001 at 10:00 AM at ACS Construction Trailer.

RAA

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**MONTGOMERY WATSON**

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959

Date: 8-May-01

**TO: Construction Meeting Minutes Distribution List**

**Fax Number**

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X	Sean Grady; IDEM	(317) 234-0428
X	Larry Campbell; Black & Veatch	(312) 346-4781
X	Chad Gailey; Black & Veatch	(312) 346-4781
X	Mararet Mulkerrin; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100
X	Matt Grostick; Montgomery Watson	(219) 924-4561
X	Doug Draia; ACS	(219) 924-5298
X	Maureen Handler; Koester	(812) 867-4478

From: Peter Vagt

Following please find the action items from the April 26, 2001 and May 3, 2001 Construction Meetings.

The next meeting is scheduled for 10:00 AM on Thursday, May 10, 2001 at the construction trailer at the ACS Site

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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Number of pages, including cover: 5

**ACTION ITEMS FROM  
WEEKLY CONSTRUCTION MEETING - MAY 10, 2001  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** May 10, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** Site Trailer, ACS NPL Site

**ATTENDEES:**

Margaret Mulkerrin - Black & Veatch  
Robert Adams - Montgomery Watson  
Matt Grostick - Montgomery Watson  
Todd Lewis - Montgomery Watson  
Tom Timics - Montgomery Watson  
Peter Vagt - Montgomery Watson  
Doug Draia - ACS  
Maureen Handler - Koester

**ACTION ITEMS**

Health and Safety

- A Site Health and Safety Audit was conducted by Mike Grasso of Montgomery Watson. The result was favorable report with only minor comments. The comments have been addressed.
- Matt Grostick stated that air monitoring results are being posted daily.
- The radiation monitoring results were discussed as well as discussion regarding proposing to discontinue the radiation monitoring after a few days of monitoring at Area B. The attendees agreed not to propose to discontinue radiation monitoring at this time.
- Tom Timics stated that a reporter entered the ACS Facility property through the ACS gate on Friday, May 4, 2001. The reporter was denied access to the area surrounding drum removal because she did not have proper documented permission from U.S. EPA and escorted off site.
- Montgomery Watson will begin keeping the Site access gate closed and post no trespassing signs.
- Montgomery Watson will compile the air monitoring results through May 11, 2001 and transmit them to Kevin Adler of the U.S. EPA.
- Margaret Mulkerrin noted that it appeared exclusion zone entry by truck drivers or other support personnel occurred without clearing the areas for reduced PPE. Montgomery Watson committed to scrutinize access to the exclusion zone more thoroughly.



Drum Removal Update

- Production totals as of end of day May 9, 2001
  - Intact drums overpacked: 128
  - Non-intact drums placed into roll-off boxes: 737
  - Drums sampled: 98
  - Samples analyzed: 79
  - Soil placed into firepond: 1,016 cubic yards
- KES anticipates to have Area A will be backfilled by Monday May 14, 2001; begin to reconfigure exclusion zone on May 14, 2001; and begin Area B by May 15 or 16, 2001.
- KES has began pre-segregating drums based on the similarity contents as determined by the HAZCAT analysis results.
- ACS, Montgomery Watson, and KES personnel will coordinate identification and applicable jacking of power/communication cables located above Area B.

General Site Update

- Abandonment of ATMW-4D is complete
- Installation of replacement well MW-55 is complete
- ORC® Installation was completed May 9, 2001 at 10:00 AM
- The Stormwater Pollution Prevention Plan (SWPPP) is complete and will be maintained on site. The Notice of Intent was submitted to IDEM

Look Ahead Schedule

- May 11, 2001 – KES anticipates excavation complete with drum removal Area A.
- May 14, 2001 – Begin abandonment of Monitoring Well W-1
- Week of May 14, 2001 – Order oxidizer for Off-Site ISVE system
- May 17, 2001 – Begin installation of erosion control measures for installation of the Temporary Cover in the Off-Site Area

**NEXT MEETING:** Thursday, May 17, 2001 at 10:00 AM at ACS Construction Trailer.

RAA/PIV/TAL/RAA  
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AX

**MONTGOMERY WATSON**

Date: 14-May-01

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959**TO: Construction Meeting Minutes Distribution List****Fax Number**

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X	Mark Travers; de maximis	(630) 443-1942
X	Margaret Mulkerrin; Black & Veatch	(312) 346-4781
X	Chad Gailey; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100
X	Matt Grostick; Montgomery Watson	(404) 236-7405
X	Tom Froman; ACS	(219) 924-5298
X	Maureen Handler; Koester	(812) 867-4478

From: Peter Vagt

Following please find the action items from the May 10, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, May 17, 2001 at the construction trailer at the ACS Site

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**MINUTES FROM  
WEEKLY CONSTRUCTION MEETING - MAY 17, 2001  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** May 17, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** Site Trailer, ACS NPL Site

**ATTENDEES:**

Margaret Mulkerrin - Black & Veatch  
Robert Adams - Montgomery Watson  
Matt Grostick - Montgomery Watson  
Todd Lewis - Montgomery Watson  
Tom Tinics - Montgomery Watson  
Peter Vagt - Montgomery Watson  
Joe Willich - Montgomery Watson  
Doug Draia - ACS  
Maureen Handler - Koester (KES)  
Ken Field - Midwest Environmental (MEI)

**ACTION ITEMS**

Health and Safety

- ACS has begun air monitoring in their building located adjacent to Area B of the drum removal. Doug Draia reported that they have had no detections in the building.
- Matt Grostick distributed the Health and Safety Plan revision for the Drum Removal. This revision allows for change of Saranex® PPE body suits to Tyvek® PPE body suits.
- KES has noticed ACS employees watching the drum removal activities at a close proximity (but not in the exclusion zone or contaminant reduction zone.). If KES operators notice people entering outer caution tape, they will stop work and activate horn until the non-authorized people have left the area.
- A Kick-off Health and Safety meeting was conducted with MEI (the subcontractor performing the temporary cover construction and spoils pile consolidation). The meeting was conducted May 17, 2001 and included respirator fit testing.
- Daily air monitoring results for the Off-Site Temporary Cover work will be posted daily in the same location as the air monitoring logs from the drum removal.

Drum Removal Update

- Production totals as of end of day May 6, 2001
  - Intact drums overpacked: 137
  - Non-intact drums placed into roll-off boxes: 1,022
  - Drums sampled: 137
  - Samples analyzed: 137 (flash point still needs to be done for 15 samples)
  - Soil placed into area previously used as a firepond: 1514.5 cubic yards
- The last drums in Area A were removed May 11, 2001. KES still needs to reconstruct the road that bisected Area A.
- Utilities (water, electrical, and communication) in Area B have been located, marked, and locked-out, as appropriate.
- KES will not work May 25, 2001 through May 29, 2001 due to Memorial Day Weekend.

Off-Site Area Temporary Cover

- Field activities began today (May 17, 2001) for the erosion control measures associated with the Off-Site Area Temporary Cover. Prior to work, a Health and Safety Kick-off Meeting was conducted and respirator fit testing was performed for the subcontractors for the temporary cover work.
- MEI (subcontractor) anticipates completing the sedimentation basin by next weekend (May 25, 2001).
- Hay bales will be used for erosion control until the silt fencing arrives.
- Montgomery Watson will propose abandoning the piezometers located just outside of the Off-Site Area and demolishing the piezometers located within the barrier wall. The piezometers will be replaced after construction of the temporary cover is complete.

General Site Update

- Abandonment of W-1 was completed on Monday, May 14, 2001.
- Installation of replacement well MW-55 is complete.

Look Ahead Schedule

- Week of May 21, 2001 – continue drum removal in Area B, continue Off-Site Area material consolidation and temporary cover work, and order thermal oxidizer for OFCA and K-P Area ISVE system.
- May 25, 2001 – Anticipated completion date for the sedimentation basin for the Off-Site Area cover work.

**NEXT MEETING:** Thursday, May 24, 2001 at 10:00 AM at ACS Construction Trailer.

**MONTGOMERY WATSON**

27755 Diehl Road  
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Warrenville, IL 60555  
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Fax: 630-836-8959

Date: 22-May-01**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
X	Margaret Mulkerrin; Black & Veatch	(312) 346-4781
X	Larry Campbell; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100
X	Matt Grostick; Montgomery Watson	(404) 236-7405
X	Tom Froman; ACS	(219) 924-5298
X	Maureen Handler; Koester	(812) 867-4478
X	Ken Field; Midwest Environmental	(219) 924-4561

From: Peter Vagt

Following please find the action items from the May 17, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, May 24, 2001 at the construction trailer at the ACS Site

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

If you do not receive all pages, or if there are any problems with this transmission, please call (630) 836-8900  
Number of pages, including cover: 3



**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR MAY 24, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** May 24, 2001

**MEETING TIME:** 11:15 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Robert Adams - Montgomery Watson  
Travis Klingforth - Montgomery Watson  
Margaret Mulkerrin - Black & Veatch  
Matt Grostick - Montgomery Watson  
Steve Field - Midwest Environmental  
Peter Vagt - Montgomery Watson  
Maureen Handler - Koester Environmental  
Tom Tinics - Montgomery Watson  
Todd Lewis - Montgomery Watson

**TOPICS:**

Health and Safety

- Matt Grostick reviewed the Health and Safety activities for the Drum Removal which was on-going: air monitoring, maintenance of the exclusion zone, wearing proper personal protective equipment (PPE), etc. Koester Environmental Services (KES) has added an interior exclusion fence around the excavation for additional protection during the Memorial Day weekend. Radiation testing has been performed on all of the overpacked drums and all of the roll-off bins full of non-intact drums. No radiation was detected.
- Tom Tinics reviewed the Health & Safety measures being implemented in the installation of the Off-Site Temporary Cover. For the first two days of work, the crew, run by Midwest Environmental, Inc. (MEI), wore level C PPE and conducted regular air monitoring. All readings were "non-detect." Therefore, MEI has continued the re-grading work in level D PPE.

Drum Removal Update

- Production totals as of end of day May 23, 2001
  - Intact drums overpacked: 249
  - Non-intact drums placed into roll-off boxes: 1,449
  - Drums sampled: 249
  - Samples analyzed: 183
  - Soil placed into firepond: 2,444 cubic yards
- Maureen Handler of KES reported that as of yesterday all of the drums have been removed from the ground, and all of the drums have been sampled. Hazcat analysis continues to be performed and will be done by early next week. KES will remove the

remaining visually-contaminated soil and backfill and compact the excavation. Demobilization will occur by next Friday or early in the following week.

#### Off-Site Temporary Cover

- Tom Tinics overviewed activities related to the Off-Site Temporary Cover. The retention pond has been excavated and some rip-rap has already been put in the place. The remaining rip-rap will be installed next week. The five original manholes of the extraction system will be raised next week to the proposed final grade of the engineered cover.
- The IDW drums and K-P Area debris has been re-located for capping.
- Spoils pile relocation/consolidation and regrading to the sub base grades is scheduled to begin next week.
- Survey controls for base grading will be set-up and existing clay thickness will be measured.

#### Summary of Additional Activities in Past Two Weeks

- The Groundwater Treatment Plant is online and there is positive evidence that a viable "bug population" is in place.
- Todd Lewis has ordered the oxidizer for the In-Situ Vapor Extraction (ISVE) work in the Off-Site Area.

#### Looking Ahead to Next Two Weeks

- The drum removal is anticipated to be completed and KES demobilized by Friday, June 1, 2001 or early in the following week.
- Construction of Off-Site Temporary Cover will continue.
- The Draft RFB for ISVE wells will be completed.

#### **NEXT MEETING:**

- Thursday, May 31, 2001 at 10:00 AM at the ACS Site Trailer

FAX



MONTGOMERY WATSON

Date: 29-May-01

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**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
X	Margaret Mulkerrin; Black & Veatch	(312) 346-4781
X	Larry Campbell; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
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X	Matt Grostick; Montgomery Watson	(404) 236-7405
X	Tom Froman; ACS	(219) 924-5298
X	Maureen Handler; Koester	(812) 867-4478
X	Ken Field; Midwest Environmental	(219) 924-4561

From: Peter Vagt

Following please find the action items from the May 24, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, May 31, 2001 at the construction trailer at the ACS Site

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
MAY 31, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE**

**MEETING DATE:** May 31, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Matt Grostick - Montgomery Watson (MW)  
Margaret Mulkerrin - Black & Veatch  
Mark Travers - de maximis  
Alex Ellwood - MW  
Todd Lewis - MW  
Maureen Handler - Koester Environmental Services (KES)  
Jack Field - KES  
Peter Vagt - MW  
Rob Adams - MW  
Ken Field - Midwest Environmental Inc. (MEI)  
Steve Field - MEI  
Chris Daly - MW  
Tom Timics - MW

**TOPICS:**

**1. Health and Safety**

Drum Removal: Air monitoring logs continue to be posted daily. The intrusive activities are complete, so the crew has downgraded from Level B personal protective equipment (PPE) to Level D. The one exception is in the event of wet decontamination activities, in which case splashguards will be used. Daily tailgate safety meetings are still being conducted at 7 am and will continue until the drum removal field work is complete.

The exclusion zone fencing is in the process of being removed, however an exclusion zone will be maintained around the concrete drum-staging pad. If the tarps need to be removed from the roll-off boxes, level B PPE may be required, but will be handled on a case-by-case basis.

The high-visibility tape which marked the electrical lines near the excavation area B will be removed by Monday, June 4, 2001. After the caution tape has been removed, the lines will be re-energized.

Off Site Temporary Cover: Regular air monitoring continues to be conducted each work day, particularly in the cabs of all vehicles and equipment. Midwest Environmental Inc. (MEI) provides daily air monitoring logs. No sustained elevated readings have been recorded. Occasional peaks of 4-5 parts per million (ppm) have been recorded. The

volatile organic compound (VOC) pile is giving off odor. PID readings have been about 10 ppm downwind. Therefore, workers remain upwind. The areas will be covered with the clay that was temporarily removed as soon as practical. Once spoil piles are moved to create the final grade for the Off-Site Area, air monitoring will be discontinued.

## 2. Drum Removal Update

Production totals as of the end of day May 30, 2001:

- Intact drums overpacked: 249
- Non-intact drums placed into roll-off boxes: 1,449
- Drums sampled: 249
- Samples analyzed: 249
- Soil placed into firepond: 2,496 cubic yards

Two samples will be prepared on May 31, 2001 and sent to the lab for PCB analysis. Three samples of chlorinated paraffins will be composited and sent to the lab for analysis. Prior to May 31, 2001, no samples had been sent off to the lab for analysis.

Currently, Koester Environmental Services (KES) is decontaminating their equipment and preparing to demobilize. They expect to be off site by Friday, June 1, 2001. The KES trailer will remain on site for a few more weeks as KES has already paid for its use. The four-ounce Hazcat sample jars collected and analyzed by KES will be stored in the groundwater treatment plant next to the samples already collected by MW.

The Geiger counter, which was used to confirm that no radiation was present in the excavated drums, was sent back to the rental company last Thursday.

## 3. Off-Site Area Temporary Cover

The retention pond basin has been excavated, and is currently about 70 percent lined with stone. All IDW drums have been sheared and buried in a ravine near the upper aquifer spoils piles. The spoils piles are currently being leveled out over the buried material.

The location of the swale leading to the retention pond has been determined, however construction can't continue currently due to wet conditions. To date, over 2,000 feet of silt fencing has been installed along the west side of the Site to prevent erosion.

The planned access gate to the ISVE blower shed has been changed from the north gate to the south gate. The south gate will provide a shorter path with a greater elevation. All manholes except Manhole 17 have been raised to the elevation of the final grade.

For the remainder of the week, MEI will continue to re-grade and cut swales into the west side of the site to establish a clear drainage path. Rough grading should be finished by the middle of next week, weather permitting.

Approximately twelve garbage bags of used PPE and miscellaneous Hazcat waste (pipettes, test tubes, etc.) will be handled as Investigation-Derived Waste (IDW).

#### 4. Summary of Past Two Weeks

**Groundwater Treatment Plant:** On Friday, May 25 it was observed that some piping within between the equalization tank and the Lamella Clarifier was getting fouled. MW will collect a sample to determine the cause of fouling.

Extraction wells 11 and 20 were offline on May 31, 2001. MW continues sufficient extraction rates to maintain the water level inside the barrier wall of the on-site area.

**Soil Vapor Extraction (SVE) System:** MW has ordered Oxidizer 1. MW is still working on ordering a blower. A site meeting is scheduled for June 12, 2001 to address general issues regarding the SVE system.

A drill rig may conduct test borings next week on site to determine the most effective method for installing the SVE wells. The Request for Proposal will be sent out next week for SVE well installation.

#### 5. Looking Ahead to Next Two Weeks

**Drum Removal:** KES will complete demobilization.

**Off-Site Temporary Cap:** Rough grading will be completed by next week, weather permitting. Area Survey will survey in final grades of the interim levels. The temporary clay cap will be installed, and the electrical systems will be installed for all off-site area wells.

**SVE System:** The Request for Proposal will be sent out.

#### 6. Next Weekly Construction Meeting

The next meeting is scheduled for Thursday, June 7, 2001.

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**MONTGOMERY WATSON**

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Fax: 630-836-8939

**Date:** 5-Jun-01**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
X	Margaret Mulkerrin; Black & Veatch	(312) 346-4781
X	Larry Campbell; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100
X	Matt Grostick; Montgomery Watson	(404) 236-7405
X	Tom Froman; ACS	(219) 924-5298
X	Maureen Handler; Koester	(812) 867-4478
X	Ken Field; Midwest Environmental	(219) 924-4561

**From:** Peter Vagt

Following please find the action items from the May 31, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, June 7, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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WEEKLY CONSTRUCTION MEETING MINUTES  
FOR JUNE 7, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE

MEETING DATE: June 7, 2001

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site - Site Trailer

ATTENDEES:

Peter Vagt - Montgomery Watson (MW)  
Todd Lewis - MW  
Margaret Mulkerrin - Black & Veatch  
Tom Tinics - MW  
Lee Orosz - MW

TOPICS

Health and Safety

*Off-Site Temporary Cover:* Air monitoring will continue until all Off-Site spoils piles are covered with clay.

Drum Removal Update

*Demobilization of Koester Environmental Services (KES):* KES demobilized on Friday, June 1, 2001. They re-mobilized on June 6, 2001 to collect samples and perform Hazcat analyses on the drums removed in 1997 during the installation of the water line to the groundwater treatment plant (GWTP). The KES trailer will remain on site for a few more weeks.

*Disposal plans:* The overpacked drums and roll-off bins will be sent off site for disposal as soon as disposal plans are finalized. Tom Tinics of MW currently conducts two daily inspections of the overpacked drums and roll-off bins and records his observations. To date, no problems have been noted.

RORA  
90-day  
rule?

Off-Site Temporary Cover

*Current efforts:* The arrival of clay and continued grading of the site was delayed about a week due to inclement weather. Grading began on June 7, 2001 and clay placement began on June 8, 2001.

*One to two week look ahead schedule for Off-Site Temporary Cover:* Area Survey will be surveying the Off-Site Area during the week of June 11, 2001 in order to document the existing clay thickness. Then additional clay will be laid as needed to complete the interim cover.

### Excavation of PCB-impacted Soil in Wetlands

The excavation of PCB-impacted soil in the wetland area is scheduled for July 2001. Prior to the excavation work, the wetland area will be partially dewatered through increased use of the Perimeter Groundwater Collection System (PGCS). Also, effluent from the GWTP will be discharged south of the railroad tracks instead of into the wetlands.

### In Situ Vapor Extraction System (ISVE) - Off-Site Area

A planning meeting is scheduled for June 12, 2001 at the site with the catalytic oxidizer unit vendor. Montgomery Watson plans to solicit quotes from both auger and bucket rigs for installing the ISVE wells in the Off-Site Area. Work will begin in the Kapica Pazmey area with an auger rig and will transition to a bucket rig if needed. The installation of the ISVE wells is dependent upon the completion of the interim cap.

### Summary of Past Two Weeks

*Summary of GWTP operation:* Pumping from the firepond has been discontinued with the completion of the drum excavation. Currently, extraction wells EW-10, EW-11, and EW-20, and the PGCS are being pumped into the GWTP.

### Looking Ahead to Next Two Weeks

The construction of Off-Site Temporary Cover will continue.

The Long-Term Groundwater Monitoring June 2001 sampling round is scheduled for week of June 18. It will include a full round of water levels and collection of indication parameters from all Monitoring Network wells. Also, we will conduct the third round of sampling of the ORC<sup>ss</sup> South Area Pilot Study wells.

Contract Dewatering Systems (CDS) will return in June to complete the installation of the Barrier Wall Extraction System by finishing the cleanout for EW-20.

### Next Weekly Construction Meeting

- Thursday, June 14, 2001

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FAX



MONTGOMERY WATSON

27755 Diehl Road  
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Fax: 630-836-8959

Date: 12-Jun-01

**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDFM	(317) 234-0428
X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
X	Margaret Mulkerrin; Black & Veatch	(312) 346-4781
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X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
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X	Matt Grostick; Montgomery Watson	(404) 236-7405
X	Tom Froman; ACS	(219) 924-5298
X	Maureen Handler; Koester	(812) 867-4478
X	Ken Field; Midwest Environmental	(219) 924-4561

From: Peter Vagt

Following please find the minutes from the June 7, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, June 14, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR JUNE 14, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** June 14, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Margaret Mulkerrin - Black & Veatch  
Tom Tinics - Montgomery Watson  
Robert Adams - Montgomery Watson  
Margaret Mulkerrin - Black & Veatch

**TOPICS**

Off-Site Temporary Cover

*Current efforts:* Montgomery Watson is currently compacting the existing clay and the cover material recently placed to cover regraded spoils piles. The southern portion of the Off-Site Area has been surveyed to establish base grades for the Temporary Cover, and the northern portion will be surveyed upon completion of the compacting activities. Temporary Cover activities to date have not damaged the piezometers in the Off-Site Area. However, if piezometers are damaged during completion of the Temporary Cover activities, the damaged piezometers will be replaced.

*One to two week look ahead schedule for Off-Site Temporary Cover:* A geotechnical testing laboratory will be brought on site to test the existing clay in the Off-Site Area for suitability to be used for the Temporary Cover. The geotechnical testing will be conducted in June 15 and 18, 2001. Potential subcontractors for placing the clay for the additional cover material for the Off-Site Temporary Cover will be evaluated upon completion of the geotechnical testing of the existing material. The survey and clay placement will begin upon selection of the subcontractor.

Excavation of PCB-impacted Soil in Wetlands

The excavation of PCB-impacted soil in the wetland area is scheduled for the end July 2001. The effluent of the GWTP will be re-directed to discharge to the south of the railroad tracks to assist in lowering the water level in the wetlands. The effluent will be re-directed starting the week of 18 June 2001.

In Situ Vapor Extraction System (ISVE) - Off-Site Area

A meeting was conducted on June 12, 2001 at the site with the thermal oxidizer unit vendor to discuss final technical and contractual details for the unit. Montgomery Watson is currently developing a Request for Bid (RFB) package for potential

subcontractors for installing the ISVE wells. The RFB will be submitted to potential bidders on June 15, 2001.

#### Summary of Past Two Weeks

*Summary of GWTP operation:* Currently, extraction wells EW-10, EW-11, and EW-20, the Fire Pond, and the PGCS are being pumped into the GWTP.

#### Looking Ahead to Next Two Weeks

The construction of Off-Site Temporary Cover will continue.

The Long-Term Groundwater Monitoring June 2001 sampling round is scheduled for week of June 18. It will include a full round of water levels and collection of indicator parameters from all monitoring network wells. The third round of sampling of the ORC<sup>®</sup> South Area Pilot Study wells will also be conducted after the regular monitoring is completed.

Contract Dewatering Systems (CDS) will return in June to complete the installation of the Barrier Wall Extraction System by finishing the cleanout for EW-20.

#### Next Weekly Construction Meeting

- Thursday, June 21, 2001

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A X

**MONTGOMERY WATSON**

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Date: 19-Jun-01

**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; de maximis	(630) 443-1942
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X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100

From: Peter Vagt

Following please find the minutes from the June 14, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, June 21, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR JUNE 21, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** June 21, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site -- Site Trailer

**ATTENDEES:**

Tom Tinics - MWH  
Chris Daly - MWH  
Robert Adams - MWH  
Travis Klingforth - MWH  
Stela Williams - MWH  
Margaret Mulkerrin - Black & Veatch

**TOPICS**

Health & Safety

Tom Tinics stated that there were no health and safety incidences during the past week.

Off-Site Temporary Cover

*Current efforts:* Rough grading is complete. MWH is currently developing an RFB to complete final grading including cutting the swales and for procurement and placement of the cover material. The sedimentation pond is working and retaining sediment from storm water run-off.

*One to two week look ahead schedule for Off-Site Temporary Cover:* Geotechnical testing equipment will be brought on site to test the material placed over the spoils piles. The geotechnical laboratory will perform testing in accordance with the ASTM standards specified by MWH. The geotechnical testing will be conducted on June 26, 2001. Final grading and cover material placement will begin upon selection of a borrow source and earth-moving subcontractor. This work is anticipated to begin in mid-July. MWH is planning to develop a table/figure that identifies the piezometers that are intact, damaged, and lost.

Excavation of PCB-impacted Soil in Wetlands

The excavation of PCB-impacted soil in the wetland area is scheduled for the end of July 2001. The effluent piping of the GWTP was been redirected to south of the railroad tracks. MWH plans to begin discharge to this location at noon on June 22, 2001. Robert Adams requested that Black & Veatch notify MWH prior to this time of any sampling requests that the U.S. EPA has for the effluent of the redirected outfall. It was noted that conditions have not become dry, as is common in July. We will be watching the weather and proposing short-term postponement of the sediment removal if the conditions stay wet into the beginning of July.

### In Situ Vapor Extraction System (ISVE) - Off-Site Area

The thermal oxidizer has been ordered and is anticipated to be on site at the end of August or early September. There is a site walk on June 26, 2001 for bidders who are bidding to install the ISVE wells.

### Groundwater Monitoring

At the end of June 20, 2001 all of the water levels have been collected and 22 wells have been sampled. The remaining 23 wells will be sampled the remainder of the week of June 18, 2001. Sampling of the ORC wells will be conducted on June 26, 2001.

### Summary of Past Two Weeks

*Summary of GWTP operation:* Currently, extraction wells EW-10, EW-11, and EW-20, the Fire Pond, and the PGCS are being pumped into the GWTP. EW-17 and EW-18 will be brought on line in the next few weeks.

*Drum Removal:* The ACS facility has begun to conduct the weekend inspections of the drums and roll-off boxes from the drum removal. ACS will use their normal inspection forms for documentation and send a copy of MWH.

### Looking Ahead to Next Two Weeks

The construction of Off-Site Temporary Cover will continue.

Sampling of the ORC wells will be conducted on June 26, 2001.

A pre-bid meeting will be conducted on the site on June 26 at 10:00 AM for installation of the ISVE wells.

Contract Dewatering Systems (CDS) will return in June to complete the installation of the Barrier Wall Extraction System by finishing the cleanout for EW-20.

Kevin Adler, Sean Grady, Larry Campbell, Todd Lewis and Peter Vagt met on site during the ISVE Well Construction Site walk on Tuesday, June 26, 2001. After that discussion, it was agreed that the standing Thursday On-Site Construction meeting will be cancelled for this week (June 28).

It was also noted that the following Thursday falls on July 5<sup>th</sup>, following the national holiday, and suggested that it might be reasonable to cancel that On-Site Construction meeting if there is a low level of activity during the first week in July. MWH will call each participant in the weekly construction meetings on July 2 or 3 to either schedule or postpone the standing meeting for July 5<sup>th</sup>.

### Next Weekly Construction Meeting

- To be determined

RAA/PJV/RAA  
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FAX

**MONTGOMERY WATSON**

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Date: 27-Jun-01**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
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X	Larry Campbell; Black & Veatch	(312) 346-4781
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X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561
X	Joe Adams; Montgomery Watson	(303) 410-4100

From: Peter Vagt

Following please find the minutes from the June 21, 2001 Construction Meeting.

The date for the next meeting is yet to be determined. Appropriate participants will be notified when the meeting is scheduled

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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Number of pages, including cover: 3

**OFCA SOIL VAPOR EXTRACTION (SVE) WELL INSTALLATION  
AT  
AMERICAN CHEMICAL SERVICES (ACS) NPL SITE**

**PREBID MEETING AGENDA**

**Date:** June 26, 2001  
**Time:** 10:00 am  
**Location:** ACS Site - MWCI Site Trailer

*Todd Lewis - PM*  
*✓ Rick Mueller - PM*

- 1) Site Introduction
- 2) General Overview of Site Operation
  - Origin of vapor stream to be collected by wells
  - Well interface with other parts of SVE system
- 3) Site Location of Wells
  - 2 Areas: Off-Site Containment Area & Kapica-Pazmey Area
  - Mobilization and access to the site
  - Staging and handling of materials
  - PPE and safety requirements.
- 4) Review Installation of Wells
  - Potential problems drilling through buried drums
  - Follow schedules on drawing for proper depth
  - Bore hole diameter: minimum size
  - ← Be sure to maintain integrity of existing clay layer
- 5) Materials of Construction
  - Proper backfill material, Bentonite layers
  - Well material, screen size, proper cap on both ends
- 6) Necessary documentation
  - Bid documents
  - Preconstruction Documentation
  - Well Installation Log Sheets and daily reports.
  - Construction Documentation Report
- 7) Site Walk
- 8) Final discussion, questions

*"buried drums" largest  
obstacle to well  
drilling (for SVE)*

*7-4<sup>30</sup> M-F*

*can be modified  
if necessary.*

*All areas - clay cover.*

*6" thick.*

*slippery when wet  
decon before living  
area.*

*Watch for lg. objects  
on ground.*

*~ 10' below water  
table for each  
borehole.*

*\* Level B PPE when drilling,  
- 40 ms / 8 hr / rad monit. updated.*

*- On-site HTS mtg - pre-start.  
- Trail gates each am.*

*{ spoils management "Plan"  
materials " " }*

*\* incomplete  
hole  
procedures.*

*\* Min. 10" diameter  
borehole - each well.*

A X

**MONTGOMERY WATSON**

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959

Date: 3-Jul-01**TO: Construction Meeting Minutes Distribution List****Fax Number**

X	Kevin Adler; U.S. EPA	(312) 353-5541
X	Sean Grady; IDEM	(317) 234-0428
X	Barbara Magel; Karaganis & White	(312) 836-9083
X	Mark Travers; Environ	(312) 853-9025
X	Margaret Mulkerrin; Black & Veatch	(312) 346-4781
X	Larry Campbell; Black & Veatch	(312) 346-4781
X	Todd Lewis; Montgomery Watson	(630) 836-8959
X	Rob Adams; Montgomery Watson	(630) 836-8959
X	Tom Tinics; Montgomery Watson	(219) 924-4561

From: Peter Vagt

Just a reminder that the weekly construction meeting tentatively scheduled for Thursday, July 5, 2001 has been cancelled.

The next meeting is scheduled for 10:00 AM on Thursday, July 12, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR JULY 12, 2001 MEETING  
AMERICAN CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** July 12, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:** Larry Campbell, BVSPC  
Lee Orosz, MWH  
Tom Timics, MWH  
Chris Daly, MWH  
Todd Lewis, MWH (via phone)

**TOPICS**

Health and Safety

- Lee Orosz reviewed the Health & Safety issues within the last two weeks. There has been minimal field activity at the site; therefore, there have been no issues regarding health & safety. Air monitoring around the rolloffs/overpack drums associated with the drum removal has been conducted twice daily. No signs of tampering have been noted and there have been no significant detections.

Summary of Past Two Weeks

- Contract Dewatering has been scheduled for Monday, July 16 to excavate and repair the cleanout of EW-20. They will be sent a memo outlining site specific health and safety procedures and will be notified to have 40-hour training and medical monitoring certificates for all personnel available to MWH prior to commencing work. The work is scheduled to be completed by July 18.
- Pre-bid site walks were conducted for the OFCA Interim Cap construction and for ISVE well installation.
- The GWTP is online.

Off-Site Interim Cap

- Construction is anticipated to begin on July 23 pending finalization of the contract with Koester Environmental Services.
- All personnel involved with the construction of the cover who are not 40-hour certified will be advised of hazardous conditions possible due to the installation of the ISVE wells occurring at the same time. The construction of the cap in the ISVE area (Engineered Cover) should be completed first.

Construction of the final cover in areas beyond the Engineered Cover may need to be completed concurrently with installation of the wells.

#### ISVE System Installation

- Finalization of contract is proceeding with Boart Longyear for installation of the ISVE wells.
- Drilling will begin in early August. Start date tentatively scheduled for August 8. The final schedule will be determined after the contract has been finalized.
- The Thermal Oxidizer and Blower Shed are on order.

#### PCB Soils Excavation

- Negotiations with bidders are currently proceeding. It is anticipated the contract will be awarded July 13 or 16.
- A memo will be distributed the week of July 16 outlining anticipated activities.

#### Looking Ahead to Next Two Weeks

- In addition to activities discussed above, the construction of a manifold for the BWES pipes in the GWTP will begin the week of July 23. It is anticipated that Consolidated Fabrications will be the subcontractor.

#### Next Weekly Construction Meeting

- Thursday, July 19, 2001 at 10:00 AM CST.

CAD/RAA/jmf

J:\209\0601 ACS\0202 MWA PM\6010202a038.doc

A X

**MWH**

MONTGOMERY WATSON HARZA

Date: 17-Jul-01

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959**TO: Construction Meeting Minutes Distribution List****Fax Number**

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X	Rob Adams; MWH	(630) 836-8959
X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Chris Daly; Montgomery; MWH	(630) 836-8959

From: Peter Vagt

Following please find the minutes from the July 12, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, July 19, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR JULY 19, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** July 19, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Larry Campbell, BVSPC  
Todd Lewis, MWHCI  
Tom Tinics, MWHCI  
Chris Daly, MWH

**TOPICS**

Health and Safety

- Tom Tinics reviewed Health and Safety issues within the last week. The only contractor on site has been Contract Dewatering Services (CDS). Activities performed by CDS involved excavation within the OFCA. No elevated PID readings were noted during much of the activities; however, readings increased late in the day on July 19, 2001 and activity was shut down for the day.
- Activities within the next two weeks include construction of the Off-Site interim cover. Koester Environmental Services (KES) is expected to perform the work. Since much of the activity associated with this task is not intrusive, personnel will not be required to have 40-hour certification (some KES personnel will have certification). If intrusive work is required, the 40-hour personnel will be utilized. All non-40-hour personnel will be given a orientation of the site and hazards.
- Monitoring of rollofs/drums associated with the drum removal continues to be conducted twice daily. No readings via PID have been noted. Weekend inspections by ACS personnel have been uneventful.

Summary of Past Two Weeks

- CDS is on site to repair tile and to construct a cleanout for EW-20 (BWES). Water extracted from the excavation has been pumped to the fire pond for subsequent treatment through the GWTP.
- GWTP is online.

OFCA Cover Construction

- Intend to award contract to Koester Environmental Services.
- A preliminary conference call with KES was held on July 13 to discuss issues pertaining to the construction. Submittals are currently being put together by KES.
- A preconstruction meeting will be held on Tuesday, July 24 with KES.

ISVE Well Installation

- Intend to award contract to Boart Longyear

- Field work is scheduled to begin on August 8. It is anticipated that Boart is capable of 2 wells/day per rig. If needed a second rig may be brought on site.
- The well installation will be coordinated with the cover construction.

#### PCB Soils Excavation

- Intend to award contract to Midwest Environmental (MEI).
- Stormwater flow from the site will be diverted from the excavation area with a containment dike and pump to be located south of the treatment plant.
- A prefabricated access road will be assembled from the GWTP to the excavation area.

#### Looking Ahead to Next Two Weeks

- Verification of EW-20 repair using camera scheduled for July 20.
- Construction of OFCA Cover
  - Pre-construction meeting – July 24
  - Construction start – July 26
- PCB Soils Excavation
  - Mobilization/Kick-off – July 24
  - Construction start – July 25
  - Schedule – estimated 10 days of active digging. It is anticipated sediment removal will be completed by mid-August.

#### Next Weekly Construction Meeting

- Thursday, July 26, 2001

FAX

**MWH**  
MONTGOMERY WATSON HARZADate: 25-Jul-0127755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959**TO: Construction Meeting Minutes Distribution List****Fax Number**

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<input type="checkbox"/>		
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From: Peter Vagt

Following please find the minutes from the July 19, 2001 Construction Meeting.

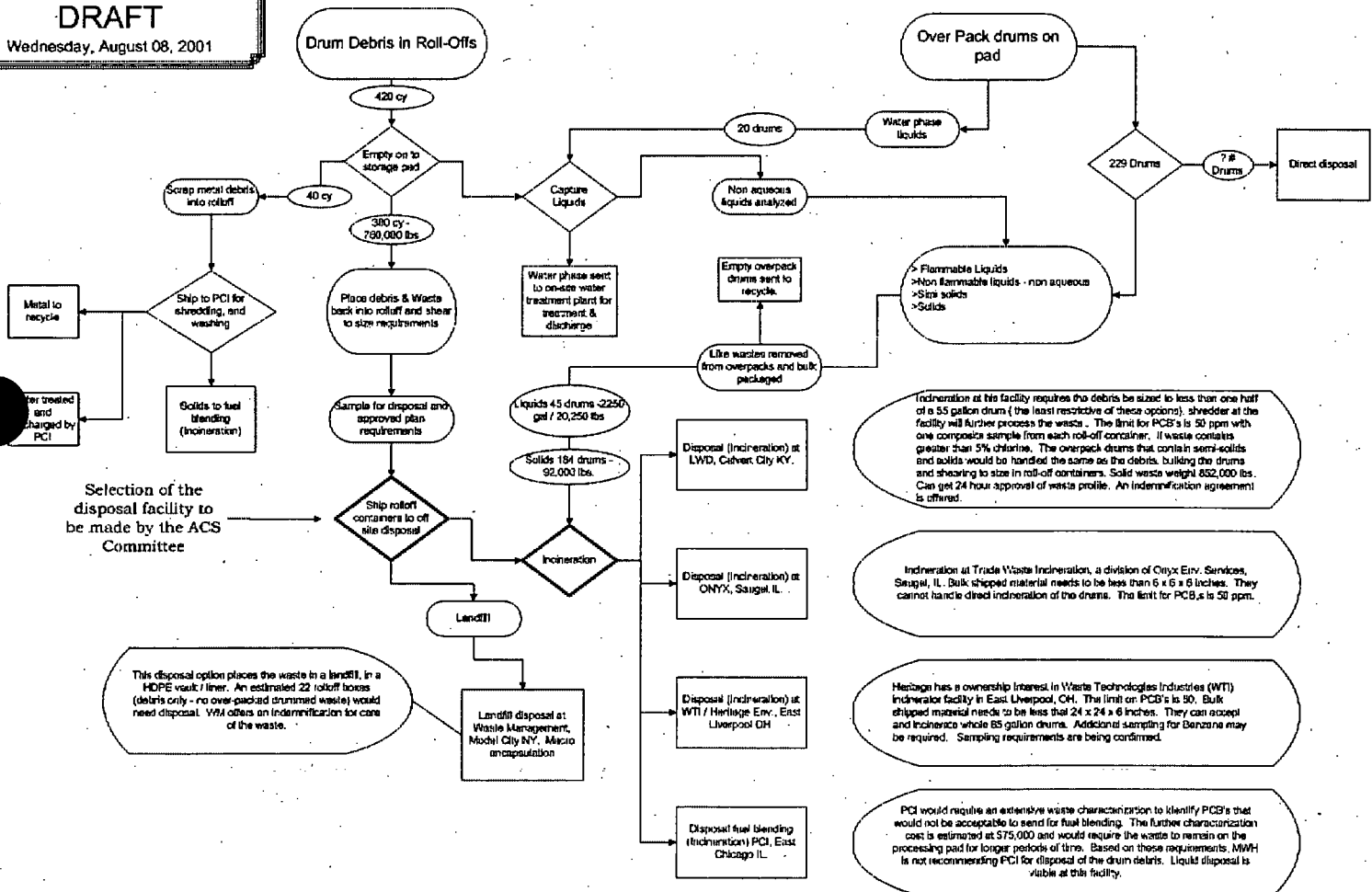
The next meeting is scheduled for 10:00 AM on Thursday, July 26, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

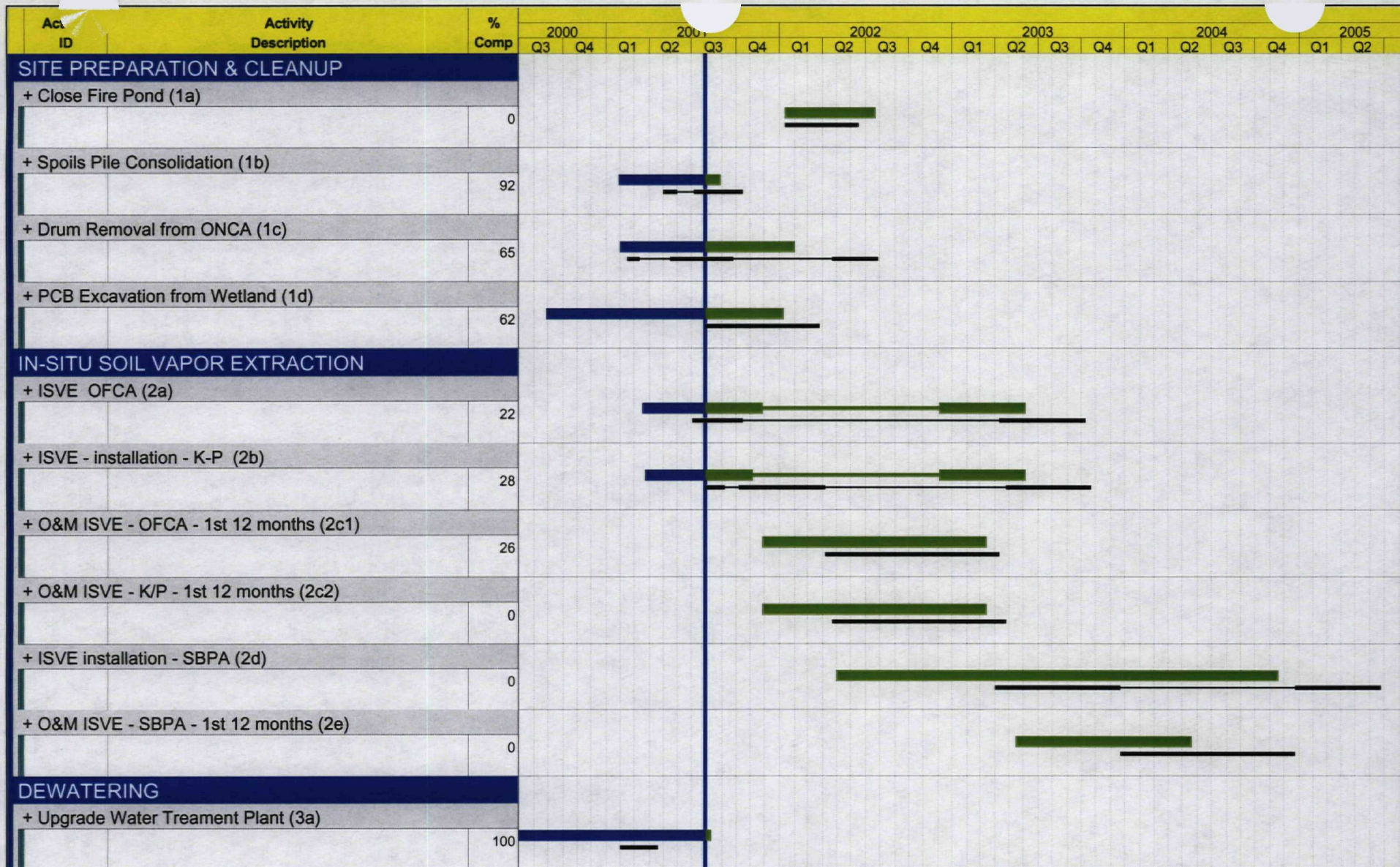
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# ACS Drum Disposal DRAFT

Wednesday, August 08, 2001







Data Date 30JUL01  
Run Date 03AUG01 15:17

Early Bar  
Target 1  
Progress Bar  
Critical Activity

ACSL

# ACS NPL SITE REMEDIAL ACTION

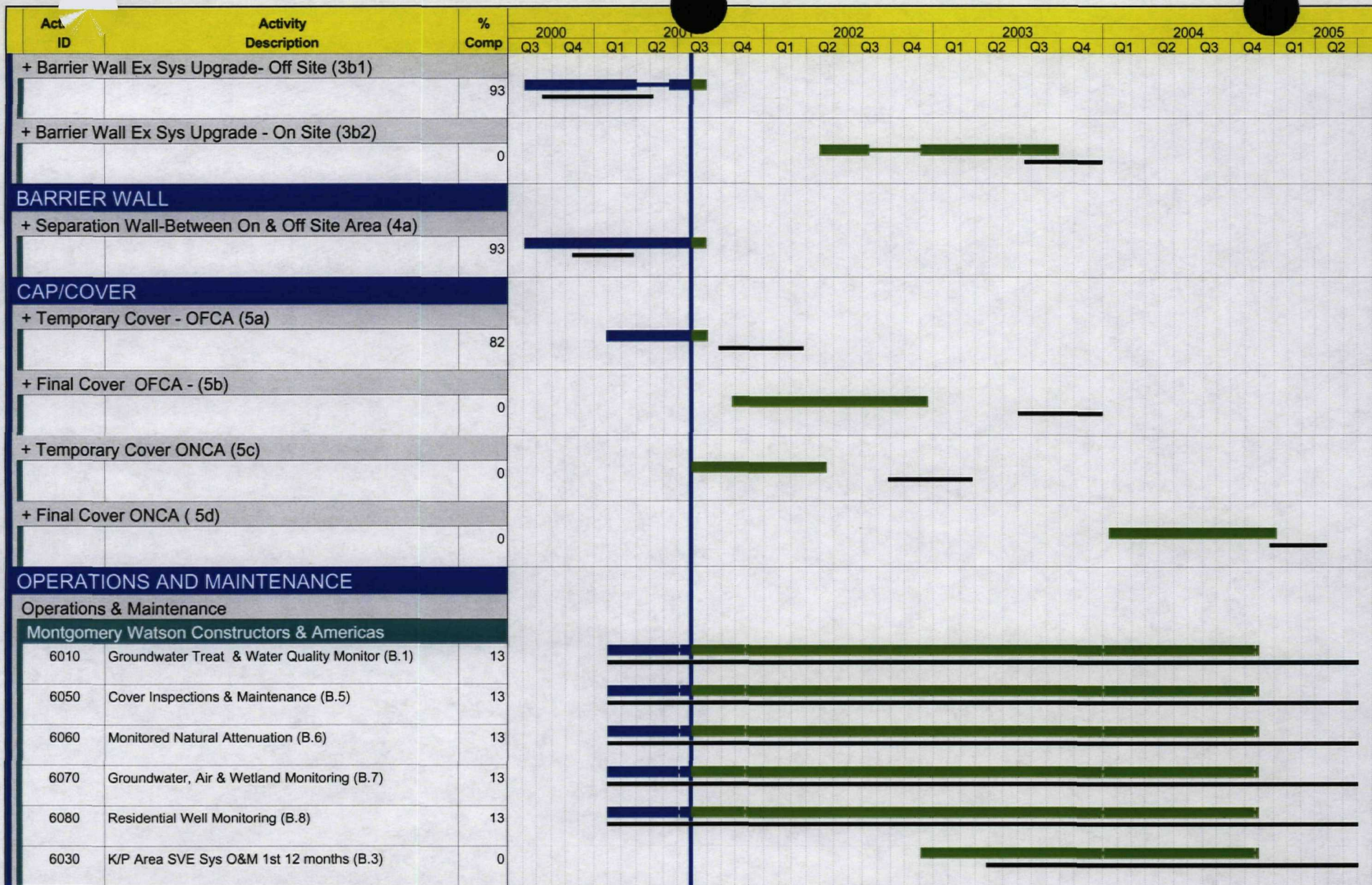
Current Progress (Bar)  
vs  
CD Schedule (line)  
End of July 2001 Report

Sheet 1 of 3



Date	Revision	heckeapprove





Data Date 30JUL01  
Run Date 03AUG01 15:17

 Early Bar  
 Target 1  
 Progress Bar  
 Critical Activity

ACSL

# ACS NPL SITE REMEDIAL ACTION

Current Progress (Bar)  
 vs  
 CD Schedule (line)  
 End of July 2001 Report

Sheet 2 of 3



**MWH**  
MONTGOMERY WATSON HARZA

Date	Revision	checked	approved



Act ID	Activity Description	% Comp	2000		2001		2002		2003		2004		2005	
			Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
6020	OFCA SVE Sys O&M 1st 12 months (B.2)	0												
6040	SBPA SVE Sys O&M after 1st 12 months (B.4)	0												
+ Montgomery Watson Americas														
		23												
MANAGEMENT														
+ MWA Management														
		29												

Data Date 30JUL01  
Run Date 03AUG01 15:17

 Early Bar  
 Target 1  
 Progress Bar  
 Critical Activity

ACSL

# ACS NPL SITE REMEDIAL ACTION

Sheet 3 of 3

Current Progress (Bar)  
 vs  
 CD Schedule (line)  
 End of July 2001 Report



**MWH**  
MONTGOMERY WATSON HARZA

Date	Revision	heckeapprove

10 am Thursday ACS 8/9/01  
Construction Meeting

Agenda

① H+S:

Extractor will 16 - remove clay around ring and excavator hit process line (water). Laborer was ~~not~~ 40-lb trained, so removed from area.

- Heat stress: on alert  
" Stroke

② Began excau. this week. Began w/ Spoils pile into fire pond.

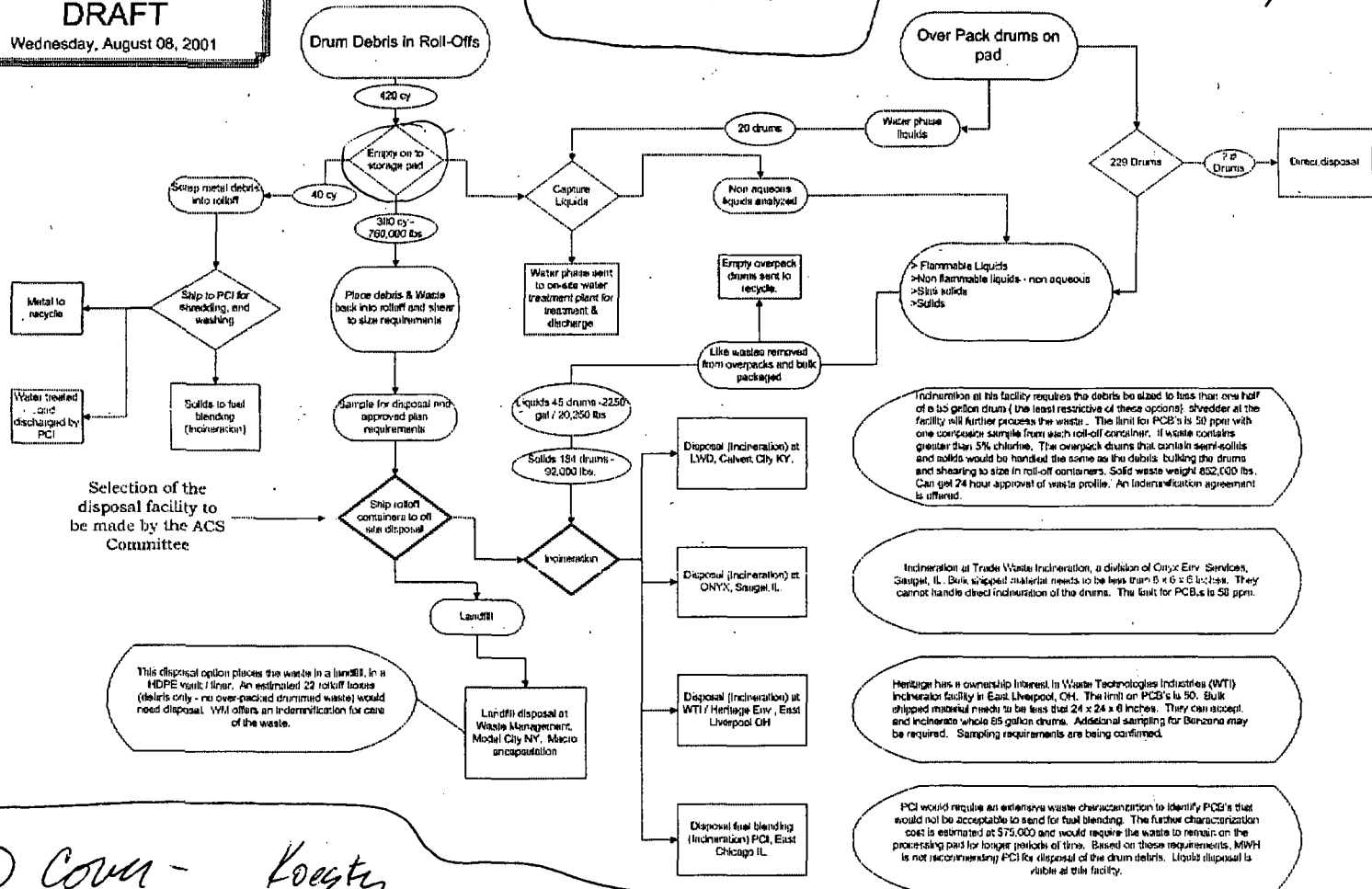
About 5% completed. in wetland area.

1. H+S
2. PCB Excau
3. Cover Constr.
4. SVE Well
5. Drum Rmul.
- 6.

Begin sampling today on west side.

Water rmul to treatment plant

ACS Drum Disposal  
DRAFT  
Wednesday, August 08, 2001



③ Cover - Koester

continues:  $\frac{2}{3}$ 's of clay in. Finish w/ top soil starting Monday. Drainage + riprap Monday. Moisture content being met:

④ Delay start until ③ work allows access. Probably start late next week.

⑤ See above.

(Approaching 90 day storage period limit) state.

**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR AUGUST 9, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** August 9, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Robert Adams	(Montgomery Watson Harza)
Vivek Agrawal	(Montgomery Watson Harza)
Travis Klingforth	(Montgomery Watson Harza)
Todd Lewis	(Montgomery Watson Harza)
Lee Orosz	(Montgomery Watson Harza)
Tom Tinics	(Montgomery Watson Harza)
Peter Vagt	(Montgomery Watson Harza)
Joe Willich	(Montgomery Watson Harza)
Kevin Adler	(U.S. Environmental Protection Agency) - via phone
Sean Grady	(Indiana Department of Environmental Management)
Larry Campbell	(Black & Veatch)
Jim Hawkins	(Koester Environmental Services)
Jeff Wickham	(Koester Environmental Services)
Ken Field	(Midwest Environmental, Inc.)

**TOPICS**

Health and Safety

No health and safety problems have occurred in the past week. Heat stress, due to the recent hot weather, has been addressed by all contractors on site with use of lots of liquids, shade, and regular reminders of the early symptoms of heat stroke.

Daily health and safety meetings are conducted by each contractor on site. Entire site health and safety meetings, attended by all contractors on site, are held weekly where the health and safety awards program is conducted. Boart Longyear, the contractor for the ISVE Well Installation, will begin attending these meetings after they mobilize.

Lee Orosz of MWH reminded everyone of the truck traffic patterns for the PCB wetland excavation and the Off-Site cover construction work.

PCE Soils Excavation

Ken Field of Midwest Environmental, Inc. (MEI) updated everyone on the project status. A temporary road was installed which extended the full length of the excavation area. Excavation began on Wednesday, August 8, 2001 beginning with the stockpiled spoils generated from construction of the Perimeter Groundwater Collection System (PGCS). Excavated soil is being transported to a prepared area just west of the ACS firepond for temporary stockpiling in a bermed area. The few remaining trees which were in the excavation area were felled. Decontamination stations were set up at the east end of the temporary and at the spoils pile area.



near the firepond. Confirmation samples will begin to be collected on August 9, 2001. Excavation will continue moving east down the temporary road.

#### OFCA Interim Cover Construction

Jim Hawkins of Koester Environmental Services (KES) briefed the meeting attendees about the progress of the Off-Site Area Interim Cover Construction. Approximately two-thirds of the clay has been delivered to the site as of August 9, 2001. KES continues to condition the clay with water and compaction. Each day Great Lakes Soil & Environmental conducts moisture and compaction testing on areas which KES has conditioned. The base layer of clay is expected to be completed next week in the portion of the site to receive the engineered cover. An additional water truck was added and access to a hydrant was arranged to condition the clay.

#### ISVE Well Installation

Boart Longyear, the contractor selected to install the ISVE wells, has delayed mobilization for a few days to allow KES to complete clay installation in the portions of the Off-Site Area where the ISVE wells will be installed. They will mobilize at the end of the week of August 13, 2001 or perhaps the beginning of the following week. Drilling is expected to begin in the Kapica Pazmey area.

#### Drum Removal

Todd Lewis (MWH) distributed a flow chart detailing the various disposal options for the overpacked drums and roll-off boxes resulting from the Buried Drum Removal conducted by KES in May 2001. MWH continues to be in contact with disposal facilities. MWH may exceed the ninety-day RCRA timetable for disposing of hazardous waste, however Sean Grady indicated that the State of Indiana would likely grant an extension.

MWH has not received from KES all of the results from the PCB analysis performed on some of the sampled drums. These results may affect disposal options.

#### Summary of Past Two Weeks

The Groundwater Treatment Plant (GWTP) continues to operate efficiently. Effluent is currently being directed to a 20,000 gallon fract tank which KES reuses to achieve the required moisture in the clay they are installing in the Off-Site Area. Also, KES is able to use water from the American Chemical Service (ACS) facility or the Town of Griffith, if needed.

Surge capacity inside the GWTP will be decreased as the Firepond will be soon closed and will not be available to provide surge capacity.

Extraction well EW-20 is still not functioning at design capacity, however MWH and Contract Dewatering Services (CDS), the contractor who installed the well, continue to assess the problem. In the meantime, other pumps will be brought on-line to compensate. Permanent electric lines will be run to extraction wells EW-16, EW-15, EW-19, and EW-19A.

#### The Next Weekly Construction Meeting

The next weekly construction meeting is set for Thursday, August 16, 2001

TMK/TAL/RAA/PJV

FAX

**MWH**

MONTGOMERY WATSON HARZA

Date: 14-Aug-01

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959

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X	Travis Klingforth; MWH	(219) 924-4561
X	Ken Field; MEI	(219) 924-4561
X	Jim Hawkins; KES	(219) 924-4561
X	Jeff Wickham; KES	(219) 924-4561
X	Vivek Agrawal; MWH	(630) 836-8959
X	Joe Willich; MWH	(630) 836-8959

From: Peter Vagt

Following please find the minutes from the August 9, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, August 16, 2001 at the construction trailer at the ACS Site.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR AUGUST 16, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** August 16, 2001

**MEETING TIME:** 10:20 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Rob Adams - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Peter Vagt - MWH  
Sean Grady - IDEM  
Mark Travers - Environ  
Chad Gailey - BVSPC  
Jeff Wickham - KES

**TOPICS**

Health and Safety

There have been no health and safety incidents in the past week. Each contractor holds daily tailgate meetings on the site, and each week all contractors working on the site continue to meet for a joint health and safety meetings.

Summary of Past Two Weeks

The Barrier Wall Extraction System (BWES) has been shut off this week due to the Off-Site Area cover work Koester Environmental Services (KES) is performing in the Off-Site Area. In addition, water is no longer being pumped to the Groundwater Treatment Plant (GWTP) from the firepond because the firepond has been filled to near capacity with soil excavated from the wetlands. The GWTP continues to discharge treated effluent to the 20,000-gallon fract tank in the Off-Site Area for use by KES.

OFC/ Cover Construction

Approximately 75% of the Off-Site Area has been covered with clay which has passed the compaction and moisture requirements set forth in the work plan. KES anticipates completing their work in the engineered-cover area by the middle of the week of August 20, 2001. They plan to complete the entire job in two to three more weeks. The tree stumps and wood chips currently stockpiled in the center of the Off-Site Area will be moved to near the retention pond beginning the week of August 20, 2001.

ISVE Well Installation

Boart Longyear, the contractor selected to perform the ISVE well installation, will begin mobilization during the week of August 27, 2001. Area Survey will establish as many well locations as possible by survey prior to Boart Longyear's mobilization. Remaining well locations will be field located with a global positioning system (GPS) instrument and a tape measure.

PCB Soils Excavation

The excavation is progressing well and daily split confirmation samples analyzed by Simalabs have all returned with PCB concentrations below the cleanup objective of 1 part per million. As the temporary road panels are removed, they will be decontaminated. All excavated material is currently being stockpiled in the firepond.

Midwest Environmental, Inc. (MEI) estimates approximately three to four more days until the excavation is complete. At that point, the restoration work will begin and will last approximately 7-10 days. The PRP group has decided to propose to the Agencies modifying the restoration plan to one that will leave an area of open water. They will draft a letter to the Agencies detailing the plan.

Drum Removal

MWH and the PRP group is currently deciding between three incinerator options for disposal of the material removed during the drum excavation in May 2001. Since it appears that more than 90 days will pass between the drum removal and disposal, MWH has written a letter to the Industrial Waste Compliance Section of IDEM, requesting a 30-day extension on holding time for the excavated drums.

Looking Ahead Two Weeks

During the week of August 20, 2001, KES and MWH will repair line 21 between extraction wells EW-11 and EW-20, which KES originally installed.

Next Weekly Construction Meeting

- Thursday, August 23, 2001

TMK/PIV/RAA

FAX

**MWH**

MONTGOMERY WATSON HARZA

Date: 21-Aug-01

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959

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X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Travis Klingforth; MWH	(219) 924-4561
X	Ken Field; MEI	(219) 924-4561
X	Jim Hawkins; KES	(219) 924-4561
X	Jeff Wickham; KES	(812) 867-4478

From: Peter Vagt

Following please find the minutes from the August 16, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, August 23, 2001 at the construction trailer at the ACS Site.

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Site Meetings Minutes

8/21/01

**WEEKLY CONSTRUCTION MEETING AGENDA  
FOR AUGUST 23, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** August 23, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site – Site Trailer

**TOPICS**

Health and Safety

- Health and Safety Summary (Tom Tinics or Lee Orosz)

GWTP Status (Todd Lewis) - *On line. RGCS + BWES.*

OFCa Cover Construction

- Project Status (Jim Hawkins) *Korsten Env. Svc.*
- One to two week look ahead schedule for OFCa Cover (Jim Hawkins)
- Stockpile area determination for pond spoils (Tom Tinics)

ISVE Well Installation

- Mobilization of Boart Longyear (Tom Tinics)
- One to two week look ahead schedule for ISVE Well Installation (Tom Tinics)
  - Surveying well locations (Travis Klingforth)
  - Begin with Kapica-Pazmey area wells

PCB Soils Excavation

- Project Status (Ken Field) *Midwest*
- One to two week look ahead schedule for PCB Soils Excavation (Ken Field)
- A consensus has been reached between the Agencies and the PRP Group to continue with the construction of a pond (Todd Lewis) *End of PCB excav. today, under road next.*

Blower Shed Installation

- Assembling pad penetration piping to be placed next week (Lee Orosz)
- Ryan Construction to begin pad construction tentatively September 4, 2001 (Lee Orosz) *Tues.*
- Blower shed delivery will be postponed until concrete coating is placed on pad (Lee Orosz)

Off-Site Utility Work

- Austgen Electric has laid a temporary underground power supply from extraction well EW-20C to the nearby temporary power pole 30 ft. away (Tom Tinics) *(in clay.)*
- Permanent power for EW-20C will be installed next week from Blower Shed to EW-20C (Tom Tinics)
- Next week we expect to install permanent power feed from Colfax Ave. to the Blower Shed (Tom Tinics)

*power line knocked down by truck;*

*Trying to create <sup>large</sup> capacity for dewatering effort.*

*Carbon change-out Sept. 5<sup>th</sup> (?)*

*~95% clay in. finished Friday. topsoil - monday. punch list after Labor Day.*

*mob: Monday 27<sup>th</sup> Aug - set up K/O mtg. Friday 24<sup>th</sup> - Lead B work.*

*mw - will have air monitoring. peri. Boart - ?? check HHS plan.*

*Sampled 32/37 PCB Soils Excavation points. probably add more most under 0.3 except 1.*

*Pond Road Mon/Tues. next wk.*

*Road panels out & decomal.*

*Blower - shipped mid-Oct. / Will stock one as back-up.*

Power  
= Lines in clay - as deep as clay thickness = 12" or 18".  
6" wide trench.

- Austgen Electric is assembling power boxes to be installed at each Off-Site Area Extraction Well (Tom Thines)

#### BWES Update

- A tentative agreement has been reached with Contract Dewatering Services to install a new extraction well within the alignment of EW-20, 20A, 20B, and 20C (Todd Lewis)

48" manhole installation  
abandon clean out near →

Water table  
down 12'

#### Drum Removal

- Disposal Plan (Todd Lewis)
  - Conference call with PRP group last week
  - Disposal options narrowed to 3-4 incinerators
  - Collecting audit information to report to group

#### options

MACIO encap. - NO.

PCI - NO.

#### Next Weekly Construction Meeting

- Thursday, August 30, 2001

- incinerate everything.

Rocky Envir. - NO.

incinerator  
options

- LWD

- ~~WVI~~ Heritage = fuel blending

- Rocky

= 90 days expires 8/31.

= asked IDEM for 30-day extension.

\$ 2.40 fells

112 miles PDV.

D = +34

**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR AUGUST 23, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** August 23, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Peter Vagt - MWH  
Todd Lewis - MWH  
Travis Klingforth - MWH  
Lee Orosz - MWH  
Kevin Adler - U.S.EPA  
Leigh Albrecht - BVSPC  
Larry Campbell - BVSPC  
Ken Field - MEI  
Jim Hawkins - KES

**TOPICS**

Health and Safety

Daily health and safety meetings are held by Midwest Environmental, Inc. (MEI) and Koester Environmental Services (KES), in addition to the weekly joint health and safety meeting attended by all contractors on the site.

No personal health and safety issues have occurred in the last week. On August 22, 2001 an Austgen work truck knocked down a temporary power line located in the north part of the Off-Site Area. NIPSCO was called and the area was immediately cautioned off. The line will be repaired soon.

Despite the extreme heat wave experienced a few weeks ago on the site, no heat related incidents were reported. Cooling stations are set up in the Groundwater Treatment Plant (GWTP), in the Off-Site Area with KES, and with MEI.

GWTP Status

The GWTP is online and receiving water from the Barrier Wall Extraction System (BWES) and Perimeter Groundwater Containment System (PGCS). The surge capacity of the GWTP will be increased for the upcoming Mechanical work to be performed in conjunction with the installation of the Blower Shed in the Off-Site Area.

OECA Cover Construction

Approximately 90%-95% of the clay has been installed and successfully tested for compaction and moisture. The remaining rip rap will be installed in the swales by August 24, 2001. Topsoil will be completed during the week of August 27, 2001, and erosion matting and grass seed will be laid the week of September 3, 2001. After the interim clay cover is in place, discharge from the GWTP will be redirected to the creek south of the railroad tracks once again.

In-Situ Vapor Extraction (ISVE) Well Installation

Mobilization of Boart Longyear & Associates (BLA) will begin August 27, 2001. They will begin installing the Kapica-Pazmey (K-P) ISVE wells. The locations of the K-P wells will be surveyed on August 24, 2001. The kickoff meeting and initial health and safety meeting will occur on August 27 or August 28, 2001.

MWH and BLA will coordinate their health and safety efforts. Both exclusion zone and perimeter air monitoring will be conducted, and a windsock will be placed on the drill rig(s).

PCB Soils Excavation

The wetland excavation, as originally delineated, will be completed on August 23, 2001. The temporary road panels are currently being removed and decontaminated. A consensus has been reached between the Agencies and the PRP Group to continue with the construction of a pond. After all initial confirmation sample results have been received, and additional impacted material is removed if needed, the wetlands will be excavated to a maximum depth of eight feet and restored to a condition of open water.

Blower Shed Installation

The blower shed foundation pad penetration piping will be placed in the blower shed area during the week of August 27, 2001. The blower shed clay sub-base has met required grade and passed compaction and moisture testing. Ryan Construction is scheduled to begin pad construction September 4, 2001. Blower shed delivery will be postponed until concrete coating is placed on pad.

Off-Site Utility Work

Austgen Electric has installed a temporary underground power supply from extraction well EW-20C to the nearby temporary power pole 30 ft. away. Permanent power for EW-20C will be installed next week from Blower Shed to EW-20C. Next week we expect to install permanent power feed from Colfax Ave. to the Blower Shed. Austgen Electric is currently assembling power boxes to be installed at each Off-Site Area Extraction Well.

BWES Update

A tentative agreement has been reached with Contract Dewatering Services to install a new extraction well within the alignment of EW-20, 20A, 20B, and 20C. The work is projected to take 2 to 3 weeks.

Drum Removal

A conference call with PRP group last week was conducted to discuss disposal options for the material excavated during the drum removal. Disposal options have been narrowed to 3-4 incinerators. Currently, MWH is collecting audit information on each incinerator to report to group. Everything excavated is scheduled to be incinerated. The 90-day RCRA deadline for the disposal of excavated material is August 31, however a request for extension has been filed with the state of Indiana.

Next Weekly Construction Meeting

- Thursday, August 30, 2001

TMK/EAA

FAX

**MWH**

MONTGOMERY WATSON HARZA

Date: 29-Aug-01

27755 Diehl Road  
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Warrenville, IL 60555  
Tel: 630-836-8900  
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**TO: Construction Meeting Minutes Distribution List****Fax Number**

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X	Todd Lewis; MWH	(630) 836-8959
X	Rob Adams; MWH	(630) 836-8959
X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Travis Klingforth; MWH	(219) 924-4561
X	Ken Field; MEI	(219) 924-4561
X	Jim Hawkins; KES	(219) 924-4561
X	Jeff Wickham; KES	(812) 867-4478

From: Peter Vagt

Following please find the minutes from the August 23, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, August 30, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

If you do not receive all pages, or if there are any problems with this transmission, please call (630) 836-8900.  
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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR AUGUST 30, 2001 MEETING NOTES  
AMERICAN CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** August 30, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:** Tom Timics - MWH  
Lee Orosz - MWH  
Travis Klingforth - MWH  
Leigh Albrecht - BVSPC  
Larry Campbell - BVSPC  
Jim Hawkins - KES  
Mike Rexing - KES  
Ken Field - MEI  
Keith Laszewski - Boart Longyear

**TOPICS:**

Health and Safety

No health and safety issues have arisen in the past week. As reported last week, an Austgen dump truck delivering clay to the Off-Site Area knocked down a temporary power line on August 22, 2001. The line has now been repaired, and no one was injured in the event.

Boart Longyear & Associates (BLA) has arrived on site to install the ISVE wells in the Off-Site Area. They are performing their work in Level B Personal Protective Equipment (PPE). At this time, BLA is working with supplied breathing air and lightweight Tyvek coveralls to reduce the likely hood of heat stress. The use of lightweight coveralls has been agreed upon because the risk of splashing from the drilling procedures is less in the Kapica-Pazmey area of the site. If conditions change, and the risk of splashing from drilling process increases, BLA will wear PVC-coated Tyvek over their light-weight coveralls.

MWH will place signs about both entrances to the Off-Site Area saying that only authorized personnel are permitted and that hard hat, safety glasses, and safety shoes are required.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently receiving 99% of its influent from the wetland area. The rainstorm over the weekend of August 25 and 26, 2001 raised the water level in the wetland area. MWH has been pumping water from the wetlands since August 27, 2001 in order to continue work in the wetland excavation area. The Perimeter Groundwater Containment System (PGCS) and Barrier Wall Extraction System (BWES) are currently turned off.

On August 30, 2001, the air pressure will be tested in the lines running between the GWTP and extraction wells, EW-17 and EW-18 in order to pace new pumps in those wells. A Request for Bid (RFB) for mechanical work related to the ISVE system will be sent to potential contractors the week of September 4, 2001.

OFCA Cover Construction

All of the clay for the interim cover has been placed by Koester Environmental Services (KES). It has passed compaction/moisture testing, and has been surveyed at final grade. Topsoil continues to be added this week and should be complete by August 31, 2001. Erosion matting and grass seeding will be placed in required areas the week of September 3, 2001. A final punchlist will be generated by MWH and KES the week of September 3, 2001.

PCB Soils Excavation

The heavy rain event on August 25 and 26, 2001 has delayed work this week. Excess stormwater continues to be pumped from the wetlands into the GWTP. The drum pad, where the temporary road panels have been being decontaminated, also fill with water and required pumping. Midwest Environmental, Inc. (MEI) will be repairing the weir in the Off-Site Area sedimentation pond on August 30, 2001. They will also be adding additional rip rap to the sedimentation pond.

According to our initial confirmation sampling, four additional areas will need to be excavated further in the wetlands excavation and then re-sampled. Also, a final management plan has not been decided upon for the material stockpiled in the firepond area.

In-Situ Vapor Extraction (ISVE) Well Installation

BLA mobilized their equipment and crew on August 27, 2001. The Construction Kickoff Meeting and Health and Safety Kickoff Meeting was held on August 28, 2001. Six ISVE wells were installed in the Kapica-Pazmney area on August 29, 2001, the first day of well installation. BLA anticipates completing well installation by September 14, 2001 if they do not encounter very many auger refusals.

Drilling has gone smoothly thus far. BLA is rotating drillers and drilling assistants to allow for sufficient hydration and rest. They regularly monitor with a photoionization detector (PID) and oxygen levels, lower explosive limits (LELs), hydrogen sulfide, hydrogen cyanide, and toxic gas levels. In addition, they are regularly pulling draeger tubes for benzene and vinyl chloride.

Blower Shed Installation

Piping which will penetrate the blower shed pad was placed during the week of August 27, 2001. Ryan Construction is scheduled to place the concrete forms on August 30, 2001 and pour the concrete for the blower shed pad during the week of September 4, 2001. Blower shed delivery will be coordinated to coincide with the curing times for the concrete foundation pad and concrete coating.

Off-Site Utility Work

Austgen Electric has laid a temporary underground power supply from extraction well EW-20C to the nearby temporary power pole located 30 feet away. Permanent power for EW-20C has been installed from Blower Shed to the vicinity of EW-20C. A permanent power feed has been run from Colfax Avenue to the Blower Shed and will be connected prior to the startup of the blower unit. Austgen Electric is assembling power boxes to be installed at each Off-Site Area Extraction Well.

Drum Removal

The PRP group is still discussing disposal options for the material excavated from the On-Site Area in May 2001.

Next Weekly Construction Meeting

- Thursday, September 7, 2001

TK/RAA

J:\209\0601 ACS\0202 MWA PM\0010202a041.doc

**FAX**



**MWH**  
MONTGOMERY WATSON HARZA

27755 Diehl Road  
Suite 300  
Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959

Date: 5-Sep-01

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<input checked="" type="checkbox"/>	Ken Field; MEI	(219) 924-4561
<input checked="" type="checkbox"/>	Jim Hawkins; KES	(219) 924-4561
<input checked="" type="checkbox"/>	Keith Laszewski; BLA	(219) 924-4561
<input type="checkbox"/>		
<input type="checkbox"/>		

From: Peter Vagt

Following please find the minutes from the August 30, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, September 6, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

If you do not receive all pages, or if there are any problems with this transmission, please call (630) 836-8900.  
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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR SEPTEMBER 6, 2001 MEETING  
AMERICAN CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 6, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Robert Adams - MWH  
Travis Klingforth - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S. EPA (via phone)  
Sean Grady - IDEM (via phone)  
Leigh Albrecht - BVSPC  
Jeff Wickham - KES  
Jim Hawkins - KES  
Keith Laszewski - BLA  
Ken Field - MEI

**TOPICS**

Health and Safety

No health and safety incidents were reported this week. A new subcontractor, Slusser Company, arrived on site September 6, 2001 to install erosion matting and spread grass seed in the Off-Site Area. They are performing work under the direction of Koester Environmental Services (KES), and all Slusser workers participated in a full health and safety meeting led by MWH prior to beginning their work.

On September 5, 2001 Boart Longyear and Associates (BLA), the subcontractor installing the In-Situ Vapor Extraction (ISVE) wells in the Off-Site Area, upgraded from wearing lightweight Tyvek coveralls to wearing PVC-coated Tyvek coveralls. As planned, this upgrade was instituted upon encountering wetter material during the drilling process. Additionally, the size and orientation of the exclusion zone around the drilling activities has been altered as needed based upon wind direction and perimeter air monitoring results.

MWH personnel have observed tread marks from all-terrain vehicles (ATVs) and motorcycles in the wetland excavation area. These vehicles appear to have entered the site during off-hours from the railroad tracks north of the site. This incident will be reported to the local authorities by MWH.

### GWTP Status

The Perimeter Groundwater Collection System (PGCS) is currently the primary influent provider for the Groundwater Treatment Plant (GWTP). Extraction well EW-10 is also in use to control the water level in the On-Site Area. When the excavation of the pond in the wetland area begins, more groundwater will be dewatered from the wetland. Austgen Electric is in the process of installing new electrical and control systems for the BWES in the Off-Site Area.

### OFCA Cover Construction

KES has placed clay over the entire Off-Site Area, and all compaction/moisture testing requirements have been met. Topsoil and final grading was completed on September 5, 2001. KES will complete the berm at the north gate on September 6, 2001 by adding additional rip rap. Shusser Company, working for KES, began installing seed and erosion matting on September 6, 2001. KES plans to demobilize on September 7, 2001.

### ISVE Well Installation

As of the end of September 5, 2001, BLA has installed a total of 20 ISVE wells, twelve in the Kapica-Pazmey area and eight in the Off-Site Containment Area. BLA and MWH continue to perform air monitoring during the drilling work. PID meters have detected volatile at concentrations exceeding 2,000 parts per million (ppm) from split-spoon soil samples. Vinyl chloride has been detected at 0.5 ppm and benzene at 8 ppm from split spoon soil samples. BLA has encountered various debris and metal, especially around a depth of five feet below the ground surface, however every well has been placed successfully without refusal. BLA expects to complete their work by September 14, 2001.

### PCB Soils Excavation

Eight of the 42 confirmation samples sent to Compuchem Laboratories contained concentrations exceeding the cleanup objective of 1 ppm. Three of these locations were further excavated by Midwest Environmental, Inc. (MEI) and resampled by MWH on August 31, 2001. The remaining five locations will be further excavated and resampled on September 6, 2001. Upon receiving results from Compuchem which indicate that concentrations are below 1 ppm, the construction of the pond will begin. Until then, the existing trench will be deepened to aid in dewatering and excavation. Areas meeting the remediation requirements may proceed.

### Blower Shed #1 Installation

MWH installed the transition piping for the Blower Shed pad in accordance with the design memo. Ryan Construction placed the forms to install the blower shed pad on September 5, 2001 and will pour the concrete pad on September 6, 2001. During the concrete installation, three cylinder samples of concrete will be collected. These will be tested for compression by Great Lakes Soils and Environmental after 3, 14, and 24 days.

The pre-fabricated blower shed will be delivered during the week of September 17 or 24, 2001, after the concrete coating is placed on the pad.

Off-Site Utility Work

Austrgen Electric is assembling power boxes to be installed at each Off-Site Area extraction well and to power Blower Shed #1.

Drum Removal

MWH is still gathering audit information and discussing disposal options with the PRP Group. Heritage Environmental will assess the material excavated during the drum removal and submit a proposal during the week of September 10, 2001. The overpacked drums and roll-off boxes continued to be regularly monitoring with a PID meter. MWH has requested a time extension from the state of Indiana for the disposal of this material.

Next Weekly Construction Meeting

- Thursday, September 13, 2001

TMK/TAL

FAX



**MWH**

MONTGOMERY WATSON HARZA

Date: 13-Sep-01

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X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Travis Klingforth; MWH	(219) 924-4561
X	Ken Field; MEI	(219) 924-4561
X	Jim Hawkins; KES	(219) 924-4561
X	Jeff Wickham; KES	(812) 867-4478
X	Keith Laszewski; BLA	(715) 355-5715

From: Peter Vagt

Following please find the minutes from the September 6, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, September 13, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR SEPTEMBER 13, 2001 MEETING NOTES  
AMERICAN CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 13, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site -- Site Trailer

**ATTENDEES:** Robert Adams-- MWH  
Todd Lewis - MWH  
Travis Klingforth - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S. EPA (via phone)  
Sean Grady - IDEM (via phone)  
Leigh Albrecht - BVSPC  
Ken Field - MEI  
Michael Magnin - BLA

**TOPICS:**

**Health and Safety**

No health and safety issues occurred this week. MWH has ordered and will install signs warning of overhead and underground power lines for the site. The last day of scheduled Level B work for Boart Longyear & Associates' (BLA) ISVE well installation work is September 13, 2001. On September 11, 2001, all contractors on site participated in the regular health and safety summary meeting conducted by MWH.

**Groundwater Treatment Plant (GWTP) Status**

The GWTP continues to operate properly. The surge capacity of the GWTP has been increased in order to accommodate increased dewatering from the wetlands during the construction of the pond.

**Off-Site Area Cover Construction**

The Off-Site Area interim cover is substantially complete. Topsoil and seed has been placed in all non-engineered cover areas. One exception is the eastern edge of the site where material will be stockpiled from the construction of the pond in the wetland area. Koester Environmental Services (KES) completed their work and demobilized September 7, 2001. Approximately 50% of the erosion matting has been placed by Slusser Company, and more will be installed September 13, 2001.

#### In-Situ Vapor Extraction/Air Sparge Well Installation

BLA completed the 42 ISVE wells in the Kapica-Pazney and Off-Site Containment Area on September 12, 2001. BLA anticipates completing all three Air Sparge wells on September 13, 2001. All wells were installed as shown on design drawings with the exception of SVE-13, which was moved approximately 10 feet north to accommodate the many pipe runs leaving the Blower Shed.

All cuttings generated from the drilling activities have been placed in a roll-off box for later disposal or replacement under the cover.

#### Piezometer Replacement in Off-Site Area

Beginning September 17, 2001 BLA will install piezometers in the Off-Site Area to replace those removed or damaged during the interim cap installation. The locations of these piezometers will be determined on September 13, 2001 during a site walk with MWH, BVSPC, and BLA. A sketch summarizing the decisions made will be sent to the Agencies. The well installation work will be conducted in Level C personal protective equipment (PPE) and may be upgraded or downgraded based upon air monitoring results.

#### PCB Soils Excavation

The first round of confirmation samples collected for Compuchem indicated that 34 of the 42 locations sampled met the cleanup objective of 1 part per million (ppm). The additional eight areas were further excavated on August 31, September 6 - 7, and 10 - 11, 2001 by Midwest Environmental, Inc. (MEI). MWH collected additional confirmation samples after further excavation. Six of these re-samples met the cleanup objective. The remaining two areas which need to be further excavated are located under the gravel road bed leading to the GWTP. In order to facilitate truck traffic during pond construction, MWH has decided to wait until the pond is completed to further excavate and resample this area, which will not be part of the completed pond.

The wetland restoration process of excavating open water began on September 12, 2001. The temporary road panels, which have all been decontaminated, were reinstalled to aid in the excavation process. MEI anticipates completing the excavation by September 21, 2001, weather permitting.

Area Survey completed their survey of the final extents of the PCB-impacted soil excavation on September 13, 2001. Excavated material removed during the pond construction will be stockpiled in the Off-Site Area along Colfax Avenue. Security Fence Company will place a silt fence around the stockpiles beginning September 14, 2001.

The three existing GWTP discharge structures, located in the wetlands north of the excavation area, will continue to be used once the pond has been constructed.

#### Blower Shed Installation

The Blower Shed Pad has been installed. A protective coating will be applied during the week of September 17, 2001. The Blower Shed will be installed after the protective coating is in place.

Underground piping will be installed from the Blower Shed to each ISVE well location. The piping will primarily be placed in the clay cap layer, but may extend below the clay cap as needed to maintain the proper elevation and slope. A subcontractor has not yet been selected to perform this work.

Off-Site Utility Work

Northern Indiana Power Supply Company (NIPSCO) will be installing a permanent power pole along Colfax Avenue to service the Blower Shed in the Off-Site Area. NIPSCO has conducted a utility locate for the pole, which will be placed in the utilities easement along Colfax. Aerial lines will be installed between the NIPSCO pole and control box which Austgen Electric has installed inside the Off-Site Area fence.

Drum Removal

The PRP group will meet with MWH on September 14, 2001 via conference call to discuss the three disposal facilities being considered: LWD (Kentucky), WTI (Ohio), and Ross Incineration (Ohio). John Crawford of the State of Indiana says that an additional time extension cannot be granted, however the state can be flexible once the PRP group has selected a disposal facility and establish a schedule for moving the waste off site for incineration.

Next Weekly Construction Meeting

- Thursday, September 20, 2001

TMK/RAA/FJV/TAL  
J:\209\0601 ACS\0202 MWA PM\6010202a041.doc

FAX

**MWH**  
MONTGOMERY WATSON HARZA

Date: 18-Sep-01

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Tel: 630-836-8900  
Fax: 630-836-8959**TO: Construction Meeting Minutes Distribution List****Fax Number**

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X	Larry Campbell; Black & Veatch	(312) 346-4781
X	Todd Lewis; MWH	(630) 836-8959
X	Rob Adams; MWH	(630) 836-8959
X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Travis Klingforth; MWH	(219) 924-4561
X	Ken Field; MEI	(219) 924-4561
X	Michael Magnin; BLA	(715) 355-5715
X	Keith Laszewski; BLA	(715) 355-5715
X		

From: Peter Vagt

Following please find the minutes from the September 13, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, September 20, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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# **WEEKLY CONSTRUCTION MEETING MINUTES FOR SEPTEMBER 20, 2001 MEETING AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 20, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

## **ATTENDEES:**

Rob Adams - MWH  
Chris Daly - MWH  
Travis Klingforth - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Chad Smith - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH (via phone)  
Kevin Adler - U.S. EPA (via phone)  
Sean Grady - IDEM (via phone)  
Leigh Albrecht - BVSPC  
Ken Field - MEI

## **TOPICS**

### Health and Safety

No health and safety issues have arisen in the past week. MWH conducted a periodic Corporate Health and Safety Review on September 14, 2001. No deficiencies were noted.

Signs are being placed throughout the site with warnings such as "No Trespassing," "No Hunting or Fishing," and "Warning: Underground Cables." Truck traffic between the wetland area and the Off-Site Area has been proceeding safely and smoothly since construction of the wetland pond began.

The Griffith police have been contacted regarding the All-Terrain Vehicle (ATV) tracks discovered in the wetland area earlier this month. MWH personnel have completed an incident report. On September 18, 2001, an employee of MWH-subcontractor Midwest Environmental, Inc. (MEI) discovered a tree stand used for hunting located approximately 30 feet behind the MWH office trailer. The evidence suggests it has been there for quite a while. It was removed, and reported to the Griffith police. On September 19, 2001, the Griffith police were given a key to the front gate of the site and a site tour during daylight hours to facilitate any nighttime inspections that they may have to make. They will regularly monitor the site and have been given MWH contact information in case any trespassing is discovered.

MWH personnel will wear orange safety vests during the September 2001 round of groundwater sampling for increased protection during hunting season.

#### Groundwater Treatment Plant (GWTP) Status

The GWTP is currently receiving the majority of its influent from the wetland area. It is also receiving influent from extraction well EW-10 in the On-Site Area and EW-11 in the Off-Site Area. In addition the replacement well for ATMW-4D (MW-56) has been pumped at one gallon per minute (gpm) to the GWTP since June 6, 2001.

#### Off-Site Area Interim Cover Construction

Construction of the Off-Site Area Interim Cover is substantially complete. Slusser Company will place the remaining 5,000 square feet of erosion matting during the week of September 24, 2001. Completion documentation is expected from Koester Environmental Services (KES) in October 2001.

MEI began construction of an erosion mat lined gravel road from the south gate on Colfax Avenue to the Blower Shed on September 18, 2001.

This item removed will be removed from future agendas.

#### In-Situ Vapor Extraction (ISVE) Well Installation and Piezometer Replacement

Boart Longyear & Associates (BLA) completed the construction of the 12 ISVE wells in the Kapica-Pazmey (K-P) area and the 30 ISVE wells in the Off-Site Containment Area (OFCA) on September 12, 2001, as reported in last week's meeting. They completed the three Air Sparge wells for the ISVE system on September 13, 2001. The wells were installed as designed and have been capped approximately five feet above the ground. One ISVE well in the OFCA area was hit by a BLA vehicle after it was installed. It broke off cleanly at the weld point a few inches above ground level. It was repaired using a specially-designed coupling. All drilling work for the ISVE system was conducted in Level B personal protective equipment (PPE).

BLA also installed ten piezometers in the Off-Site Area on September 16 and 17, 2001 to replace the piezometers removed or damaged during the installation of the Off-Site Cover. This work was begun in Level C PPE, and downgraded to Level D PPE due to air monitoring results. Two original piezometers remain in the Off-Site Area, P-95 and P-96. MWH personnel have extended the piezometer P-95, constructed of PVC, to a height of three feet above the ground surface. It extended only inches above the ground surface following placement of the clay cover.

Completion documentation will be sent to MWH by BLA during October 2001. The roll-off box used to store soil cuttings from the drilling activities will be moved to the On-Site Area for temporary storage. MWH will arrange to have the ISVE wells and piezometers surveyed during October 2001. This item removed will be removed from future agendas.

MWH has begun gathering bids for the installation of the yard piping to connect ISVE wells to the Blower Shed.

#### PCB Soils Excavation

Pond construction is approximately 65%-70% complete. MEI has created a few mounds of overburden soil around the perimeter of the excavation as requested by IDEM.

Approximately two more days of pond excavation remain as of September 20, 2001. The eastern portion of the excavation, which will not be part of the pond, will be restored to original grade.

MWH will explore the possibility of creating a small sump area near the stormwater outfall point of the ACS facility to prevent direct discharge into the pond, but continue to recharge the upper aquifer.

IDEM has requested that MWH examine the historical water levels in the wetland area. IDEM suggests that a portion of the GWTP effluent may need to be discharged directly into the pond to prevent a large annual water level fluctuation in the pond that may promote cattail return to the area.

#### Blower Shed Installation

A coating will be placed on the blower pad September 20, 2001. A crane is scheduled to place the blower shed on the blower pad on September 25, 2001. Austgen Electric will install the motor control center (MCC) for the ISVE system in mid-October.

#### Off-Site Utility Work

The Northern Indiana Power Supply Company (NIPSCO) installed a new power line along Colfax Avenue during the week of September 17, 2001. It is ready for Austgen to connect the pole to the control box just inside the Off-Site Area fence.

#### Drum Removal

A conference call was held between the PRP group and MWH on September 14, 2001 regarding disposal options for the material excavated from the On-Site Area in May 2001. Two of the disposal companies being considered are not likely to be chosen: LWD and Ross Incineration. WTI/Heritage is the probable choice for incineration. U.S. EPA and IDEM have approved the selection.

#### Next Weekly Construction Meeting

- Thursday, September 27, 2001

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**FAX**



**MWH**  
MONTGOMERY WATSON HARZA

Date: 25-Sep-01

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**TO: Construction Meeting Minutes Distribution List**

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<input checked="" type="checkbox"/>	Chris Daly; MWH	(630) 836-8959
<input checked="" type="checkbox"/>	Lee Orosz; MWH	(219) 924-4561
<input checked="" type="checkbox"/>	Ken Field; MEI	(219) 924-4561
<input type="checkbox"/>		
<input type="checkbox"/>		

From: Peter Vagt

Following please find the minutes from the September 20, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, September 27, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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Peter.J.Vagt@us.mwh  
global.com

09/26/2001 10:54  
AM

To: KEVIN ADLER/R5/USEPA/US@EPA, sgrady@dem.state.in.us,  
campbellm@bv.com

cc: Todd.A.Lewis@us.mwhglobal.com,  
Thomas.J.Tinics@us.mwhglobal.com,  
Robert.A.Adams@us.mwhglobal.com

Subject: New Call in number for 10 a.m. Thursday ACS Conference

As usual, we will set up a call in number for the weekly On-Site  
Construction Meeting at the ACS Site, tomorrow at 10 a.m.

Please note that we are using a different phone number and Conference ID.

The particulars are:

Date & Time: September 27 at 10 a.m. CDT  
Call In Number: 888-693-8686  
Conference ID: 250 1060

We look forward to your participation.

Pete

**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR SEPTEMBER 27, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 27, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Rob Adams - MWH  
Vivek Agrawal - MWH  
Chris Daly - MWH  
Travis Klingforth - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Sean Grady - IDEM (via phone)  
Leigh Albrecht - BVSPC  
Larry Campell - BVSPC (via phone)  
Ken Field - MEI

**TOPICS**

**Health and Safety**

No health and safety issues have arisen in the past week. Signs continue to be placed throughout the site with the following warnings: "No Trespassing," "No Hunting or Fishing," and "Warning: Underground Cables." Midwest Environmental, Inc. (MEI) is the only subcontractor currently performing work on site.

**Groundwater Treatment Plant (GWTP) Status**

The GWTP is no longer receiving influent from the wetland excavation because the wetland excavation is no longer being dewatered. The GWTP is currently receiving influent from extraction well EW-10 in the On-Site Area and EW-11, EW-19, EW-20B, and EW-20C in the Off-Site Area.

The GWTP resumed normal discharge to the wetland area via the existing three wetland discharge structures on September 25, 2001.

**Groundwater Sampling and Annual Sampling of Residential Wells**

MWH performed the September 2001 groundwater sampling round on September 25, 2001. Water levels were measured for all piezometers and monitoring wells currently part of the long-term groundwater monitoring plan. Five monitoring wells were sampled as part of the long-term groundwater monitoring plan: MW-9R, MW-10C, MW-48, MW-49, and MW-56.

The annual residential well monitoring will be conducted during October 2001, per the letter sent by MWH to the Agencies on September 17, 2001. In accordance with the letter, the sampling will proceed for five residential wells unless the U.S. EPA requests a change by October 1, 2001. The sampling is tentatively scheduled for the week of October 15, 2001.

#### Oxygen Releasing Compound (ORC®) Sampling

MWH performed sampling Round 5 of the ORC® South Area Pilot Study on September 26, 2001 in conjunction with the standard groundwater monitoring. Analytical results will be included in a future monthly status report. The final sampling round of the pilot study, Round 6, will be conducted during November 2001. There will be no ORC® sampling during October 2001.

#### PCB Soils Excavation

The wetland restoration activity, excavating the pond, was completed on September 24, 2001. MEI continues to clean road panels and equipment. They will also construct a drainage swale to direct stormwater runoff from the ACS facility away from the pond and toward the northern portion of the wetland area.

The final PCB-impacted soil was excavated from under the gravel road near the GWTP on September 25, 2001. The final confirmation excavation samples were collected from sampling locations 37 and 42 on September 26, 2001. Analytical results are expected prior to the next weekly construction meeting.

IDEM has suggested that MWH seed the pathway from the GWTP to the pond with prairie grasses.

#### Blower Shed Installation

A coating was placed on the blower pad September 20, 2001. A crane placed the blower shed on the blower pad on September 25, 2001.

Austgen Electric will install the motor control center (MCC) for the In-Situ Vapor Extraction (ISVE) system in mid-October. Prospective bidders are currently reviewing the Request for Bid (RFB) to install the yard piping which will connect the ISVE wells and the blower shed. Delivery of the custom-built oxidizer unit for vapor treatment has been postponed until mid-December 2001 due to manufacturing delays.

#### Off-Site Utility Work

The Northern Indiana Power Supply Company (NIPSCO) installed a new power line along Colfax Avenue during the week of September 17, 2001. It is ready for Austgen to connect the pole to the control box just inside the Off-Site Area fence. This item will be removed from next week's meeting agenda.

#### Drum Removal

WTI/Heritage has been selected as the incineration vendor for the excavated drum material. After the contract is signed with WTI/Heritage, MWH will send out a memo to the Agencies and PRP group prior to any actions taking place. The memo will detail the disposal plan and scheduled to be followed. IDEM doesn't foresee a need to conduct any additional characterization of the overpacked drums prior to disposal, but will confirm

this upon receipt of the drum disposal plan memo. U.S. EPA will also decide if they will require additional characterization prior to disposal.

Next Weekly Construction Meeting

- Thursday, October 4, 2001

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**FAX****MWH**

MONTGOMERY WATSON HARZA

**Date:** 2-Oct-01

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<input checked="" type="checkbox"/>	Chris Daly; MWH	(630) 836-8959
<input checked="" type="checkbox"/>	Lee Orosz; MWH	(219) 924-4561
<input checked="" type="checkbox"/>	Ken Field; MEI	(219) 924-4561

**From:** Peter Vagt

Following please find the minutes from the September 27, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, October 4, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR OCTOBER 18, 2001 MEETING  
AMERICAL CHEMICAL SERVICE, NPL SITE**

**MEETING DATE:** October 18, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Rob Adams - MWH  
Travis Klingforth - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S.EPA (via phone)  
Larry Campbell - BVSPC

**TOPICS:**

Health and Safety

No health and safety incidents occurred on the site since the last weekly construction meeting held September 27, 2001. No subcontractors are currently working on the site. Therefore, weekly health and safety meetings with the subcontractors are not currently taking place. Additional signs have been placed on the site for parking controls and to prohibit hunting or trespassing.

Groundwater Treatment Plant (GWTP)

GWTP influent continues to come from the Barrier Wall Extraction System (BWES) and Perimeter Groundwater Containment System (PGCS). Extraction wells EW-11, EW-19, EW-20B, and EW-20C are providing influent to the GWTP. EW-12, EW-13, EW-15, EW-16, EW-20, and EW-20A are awaiting the installation of new pumps during the week of October 22, 2001.

The GWTP mechanical system maintenance, performed by Ryan Construction during September 2001, is complete. The GWTP discharges into the wetlands as indicated in the final design.

Groundwater Monitoring

As reported in the October 2001 monthly status report, the September 2001 long-term monitoring round was conducted on September 25, 2001. The Annual Sampling of Residential Wells was conducted on October 15, 2001. Four of the five residential homes that are part of the sampling program were sampled. The home at 1007 Reder Road could not be sampled because the home had been vacated and the pump had been turned off due to a recent fire.

ORC<sup>®</sup> Sampling of South Area Pilot Study was conducted on September 26, 2001, as reported in the October 2001 monthly status report. The final ORC<sup>®</sup> Sampling round will take place in November 2001.

### PCB Soils Excavation

The final results of the PCB-impacted soil sampling were included in the October 2001 monthly status report. The final excavation area survey will be conducted by Area Survey on October 18, 2001. Further work in the wetlands is not expected so final documentation of the remedial activities will be provided in the completion report. This item will be removed from the next meeting agenda.

### Off-Site Utilities

Everything is ready and in place for NIPSCO to install a metering box on the newly-installed permanent power pole on Colfax Ave. just east of the Off-Site Area.

### Barrier Wall Extraction System (BWES)

Contract Dewatering Services (CDS) is scheduled to be on site beginning October 29, 2001 to complete the installation of extraction well EW-20C. Also, an additional extraction point will be placed in the On-Site Area by MWH in the near future. This extraction well will serve as a backup pumping source to control the water level since the firepond was closed.

### In-Situ Vapor Extraction System (ISVE)

The motor control center (MCC) has been installed by Austgen Electric in the blower shed. Submittals from the manufacturer of the thermal oxidizer unit have been received. The final instrumental and control components are being finalized. The unit is expected to arrive during December 2001.

Bids have been received for the installation of the ISVE conveyance piping, and the contract is expected to be awarded during the week of October 22, 2001. Construction may begin in 2-3 weeks. The installation is expected to take 3 weeks.

Start-up of the ISVE system is anticipated for January 2001.

### Drum Removal

Onyx and MWH have reached a contract agreement for the disposal of the material excavated during the Drum Removal earlier this year. The final contracts have been produced and are in circulation for signatures. The final contract is expected to be signed on October 22, 2001. Onyx will come to the site during the week of October 22, 2001 for disposal characterization. WTI/Heritage and MWH could not come to contract agreement on disposal, therefore WTI/Heritage is not currently being considered as an option.

Kevin Adler of the U.S. EPA confirms that both Onyx and WTI/Heritage are in compliance. Todd will be summarizing the actions to occur in a memo during the week of October 22, 2001.

After the overpacked drums are removed from the site for disposal by Onyx, Midwest Environmental, Inc. (MEI) will empty each roll-off box of drum debris onto the drum pad for resizing to the dimensions necessary for processing at the Onyx facility. The resized debris will then be placed into Onyx containers for transportation and disposal. An Onyx representative will be on site to supervise and approve the resizing process.

Sampling of the waste will be done as required by the disposal facility. This sampling may be less than the sampling detailed in the drum removal work plan dated January 1999.

### Next Weekly Construction Meeting

- November 1, 2001

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FAX

**MWH**  
MONTGOMERY WATSON HARZA

Date: 23-Oct-01

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X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Travis Klingforth; MWH	(630) 836-8959
X	Chris Daly; MWH	(630) 836-8959
X	Lee Orosz; MWH	(219) 924-4561

From: Peter Vagt

Following please find the minutes from the October 18, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, November 1, 2001 at the construction trailer at the ACS Site.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR NOVEMBER 8, 2001 MEETING  
AMERICAN CHEMICAL SERVICES, NPL SITE**

**MEETING DATE:** November 8, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Chris Daly - MWH  
Travis Klingforth - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Leigh Albrecht - Black & Veatch  
Jason Coburn - Onyx

**TOPICS:**

Health and Safety Summary

No health and safety incidences have occurred since the last weekly construction meeting October 18, 2001. Contract Dewatering Services (CDS) performed work in Level B Personal Protective Equipment (PPE) while they completed installation of extraction well EW-20C.

The kickoff meeting for the drum disposal activities was held on November 2, 2001 with MWH, Onyx Environmental Services, Black & Veatch, Midwest Environmental, Inc. (MEI) and the ACS facility. ACS facility staff provided site Health and Safety and facility training to three staff members of MEI on November 8, 2001. These three people began work on the ACS Site on November 8, 2001.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently receiving influent water from extraction wells EW-10, EW-17, EW-18, and the Perimeter Groundwater Containment System (PGCS). The Barrier Wall Extraction Systems (BWES) extraction wells in the Off-Site Area have been turned off while CDS is completing the installation of EW-20C.

The drums of water currently stored on the drum pad will be pumped to the GWTP for treatment beginning the week of November 12, 2001. This is further described in the drum removal section of these minutes.

Barrier Wall Extraction Systems (BWES) Updates

CDS is scheduled to complete the re-installation of extraction well EW-20C on November 9, 2001. EW-20C has been connected to the extraction trench and the casing

is in place. The excavation for the extraction well has been backfilled and compaction testing will take place on November 8, 2001.

#### Off-Site Utility Work

MEI buried the electrical conduit between power pole and control box in the Off-Site Area on November 7, 2001. Permanent power will be available in the Off-Site Area once Northern Indiana Power Supply Company (NIPSCO) has completed installation of the power and meter box, which is scheduled for November 8, 2001. The ISVE motor control center (MCC) and BWES Off-Site wells will be connected to permanent power as soon as NIPSCO has completed its work.

#### In-Situ Vapor Extraction (ISVE) System - Off-Site Area

Heritage Industrial Services (HIS) has been selected as the subcontractor to install the yard piping for the Off-Site Area ISVE system. MWH and HIS signed the contract on November 6, 2001. The kickoff meeting is scheduled for November 19 or 26, 2001. Mobilization will begin the week of November 19, 2001 and installation will begin the week of November 26, 2001. The work is anticipated to last three weeks. Certified welders will perform the welding work and HIS will follow a specific pressure testing protocol to assure that the piping is installed according to design.

#### Drum Removal

Onyx transported 227 overpacked drums to its Port Arthur, Texas disposal facility for incineration on November 5, 2001. Thirty-three drums of water currently stored on the drum pad (22 overpacked drums excavated during the drum removal and 11 drums generated during previous site activities) will be pumped to the GWTP for treatment beginning the week of November 12, 2001. The 31 drums which have been stored on the pad from previous site activities, including the 11 drums containing water mentioned above, will also be disposed of as outlined in the November 2, 2001 memo to the Agencies. Roll-off box drum debris material will be sheared for disposal by MEI beginning November 8, 2001. The roll-off boxes will be transported by Onyx to their Port Arthur, Texas facility beginning November 9, 2001.

#### Long-Term Groundwater Monitoring Plan

A meeting will be scheduled between the U.S. EPA, IDEM, MWH, and Black & Veatch to discuss the Long-Term Groundwater Monitoring Plan which has been proposed by MWH. The date of this meeting will be determined after MWH has received the review comments from U.S. EPA and IDEM.

#### Next Weekly Construction Meeting

Thursday, November 15, 2001

TMK/TAL/RAA/PJV

J:\2001\0601\0202\Meeting Minutes 11-8-01

FAX

**MWH**

MONTGOMERY WATSON HARZA

Date: 13-Nov-01

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X	Todd Lewis; MWH	(630) 836-8959
X	Rob Adams; MWH	(630) 836-8959
X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Travis Klingforth; MWH	(219) 924-4561
X	Ken Field; MEI	(219) 924-4561
X	Jason Coburn; Onyx	(219) 924-4561

From: Peter Vagt

Following please find the minutes from the November 8, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, November 15, 2001 at the construction trailer at the ACS Site.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR NOVEMBER 15, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** November 15, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Robert Adams - MWH  
Travis Klingforth - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S. EPA (via phone)  
Sean Grady - IDEM  
Leigh Albrecht - Black & Veatch  
Jason Coburn - Onyx  
Ken Field - MEI

**TOPICS:**

Health and Safety Summary

No health and safety incidences have occurred since the last meeting. Midwest Environmental, Inc. (MEI) has performed the work of drum debris disposal in Level B Personal Protective Equipment (PPE), downgrading or upgrading PPE as dictated by air monitoring results. Mike Grasso, corporate health and safety officer for MWH and a former OSHA inspector, will be conducting a site visit during December 2001.

Drum Disposal Activities

MEI began shearing and resizing drum debris November 8, 2001. By the end of the day November 15, 2001 all original Ozinga roll-off boxes are expected to have been emptied onto the drum pad and decontaminated. All drum debris is expected to be resized and re-containerized by November 16 or November 19, 2001. All drum debris is expected to be shipped to the Onyx facility in Port Arthur, Texas for incineration by November 19, 2001. MEI is scheduled to decontaminate equipment and the drum pad on November 19, 2001 and demobilize by November 20, 2001. Upon completion of the job, 234 overpacked drums of material and 18 to 19 twenty-yard roll-off boxes will have been sent to Port Arthur, Texas for incineration. Todd Lewis will be completing and distributing a flow chart which summarizes drum material disposal activities.

### Long-Term Groundwater Monitoring Plan

MWH has received review comments from the U.S. EPA and IDEM regarding the revised Long-Term Groundwater Monitoring Plan proposed by MWH. MWH is formulating responses to the Agencies' comments and hopes to distribute their comments for client review prior to the Thanksgiving holiday. Upon client review, MWH will distribute their comments for Agency review. A meeting to discuss review comments is tentatively scheduled between MWH, U.S. EPA, IDEM, and Black & Veatch on November 29, 2001.

### Off-Site Utility Work

Northern Indiana Power Supply Company (NIPSCO) completed the installation of the metering box for permanent power to the Off-Site Area on November 8, 2001. The motor control center (MCC) for the Off-Site Area In-Situ Soil Vapor Extraction System (ISVE) is connected to the permanent power source. Austgen Electric is currently trenching permanent power lines to extraction well EW-20C of the Off-Site Area Barrier Wall Extraction System (BWES). The Off-Site Area BWES wells should be connected to the permanent power source by November 16, 2001.

### Groundwater Treatment Plant (GWTP) Status

The GWTP currently is receiving influent from the On-Site BWES wells and the Perimeter Groundwater Containment System (PGCS). The Off-Site BWES wells were turned off during the completion of extraction well EW-20C. During the completion of EW-20C, the temporary power to the Off-Site Area was disconnected. The Off-Site Area extraction wells will be turned on again after they have been wired to the permanent power source.

### Barrier Wall Extraction Systems (BWES) Updates

Contract Dewatering Services (CDS) completed the installation of extraction well EW-20C and demobilized on November 9, 2001. CDS will demobilize their remaining equipment by the end of November 2001. Erosion controls will be installed in the area surrounding EW-20C by the end of November 2001. The Off-Site Area BWES extraction wells will resume pumping to the GWTP once after they have been connected to the permanent power source.

### In-Situ Vapor Extraction (ISVE) System - Off-Site Area

Heritage Industrial Services (HIS) of Indianapolis, Indiana participated in an informal pre-construction meeting on November 13, 2001 for the installation of the yard piping for the Off-Site Area ISVE system. HIS is scheduled to begin mobilization on November 19, 2001. Installation of the yard piping is scheduled to begin on November 26, 2001. The kickoff health and safety meeting for the project is scheduled for November 26, 2001 at 10 am. The project is expected to last three to four weeks.

The blower unit for the Off-Site Area ISVE system is scheduled to arrive during early December 2001. The thermal oxidizer unit delivery has been postponed to January 2002 due to manufacturing delays. Austgen Electric is completing the installation plan for the control system for the ISVE system.

The soil cuttings generated from the installation of the Off-Site Area ISVE wells by Boart Longyear, which have been stored in a roll-off box since the completion of Boart Longyear's work, were placed in the Fire Pond Spoil Pile Management Area on November 14, 2001. This is an area that will be treated by ISVE in the future.

Next Weekly Construction Meeting

The next weekly construction meeting is scheduled for Thursday, November 29, 2001.

TMK/TAL/PIV/RAA

JA2090601 ACS0202 MWA PMMeeting Minutes 11-15-01.doc

FAX

**MWH**  
MONTGOMERY WATSON HARZA

Date: 20-Nov-01

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Warrenville, IL 60555  
Tel: 630-836-8900  
Fax: 630-836-8959**TO: Construction Meeting Minutes Distribution List****Fax Number**

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X	Rob Adams; MWH	(630) 836-8959
X	Tom Tinics; MWH	(219) 924-4561
X	Joe Adams; MWH	(303) 410-4100
X	Travis Klingforth; MWH	(219) 924-4561
X	Ken Field; MEI	(219) 924-4561
X	Jason Coburn, Onyx	(219) 924-4561

From: Peter Vagt

Following please find the minutes from the November 15, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, November 29, 2001 at the construction trailer at the ACS Site.

If you would like a copy of these minutes or future minutes sent via e-mail please let us know.

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**WEEKLY CONSTRUCTION MEETING AGENDA  
FOR NOVEMBER 29, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** November 29, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site – Site Trailer

**TOPICS:**

Health and Safety Summary (Tom Tinics) –

*- No incidents*

GWTP Status (Lee Orosz)

*- Carbon in circulation / 50-55 gpm when pumping (at capacity)  
changed out.*

In-Situ Vapor Extraction (ISVE) System – Off-Site Area (Todd Lewis)

- Yard piping installation by Heritage Industrial Services
- Anticipated schedule

*Dec 21 = contr. date. Weather delays, etc. =*

*= probably several wks later.*

Drum Disposal Activities (Todd Lewis)

- Summary of activities
- Final material shipped off site – 11/19/01
- MEI demobilization on 11/19/01

*All drums gone  
all roll-offs gone  
drum stage old  
disconnected.*

*Thermal Oxid. = Dec/Jan.  
ship date.  
3 wks to hook-up.*

Long-Term Groundwater Monitoring Plan (Peter Vagt)

- Review comments by U.S. EPA and IDEM
- Meeting to discuss review comments

*Testing early Feb.*

ORC South Area Pilot Study (Peter Vagt)

- Final round of monitoring (Round 6) – scheduled for week of November 26, 2001

*Today starts last round.*

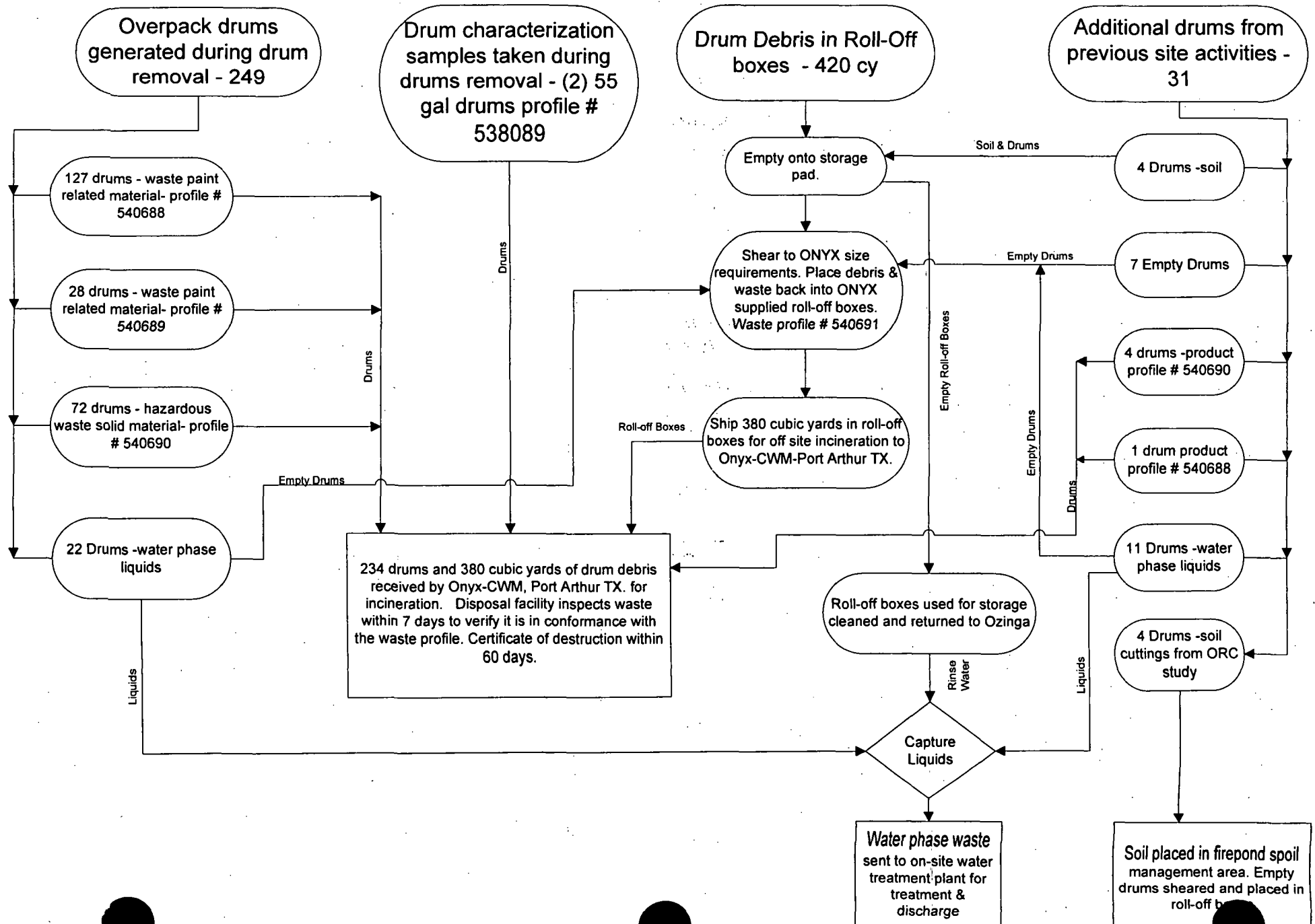
Next Weekly Construction Meeting

- Thursday, December 6, 2001

*Rpt. Jan/Feb on effectiveness.*



# ACS Drum Waste Disposal



**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR NOVEMBER 29, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** November 29, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Rob Adams - MWH  
Chris Daly - MWH  
Lee Orosz - MWH  
Chad Smith - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S. EPA  
Sean Grady - IDEM  
Larry Campbell - BVSPC  
Leigh Peters - BVSPC  
Mark Travers - Environ

**TOPICS:**

Health and Safety Summary

We had another week with no health and safety incidents or work days lost. Heritage Industrial Services is performing the installation of the conveyance piping for the Off-site ISVE system. Heritage personnel have received the site-specific health and safety training. The Griffith Police Department has been routinely patrolling the site at nights and over weekends and has not reported anything unusual. Hunters have not been observed in the area. Warning signs around the site have been maintained.

GWTP Status

Carbon was changed out on November 27, 2001 and was activated on November 28, 2001. The plant is discharging to a swale cut to direct ACS discharge away from the wetland pond. Active pumping is scheduled to resume on December 3, 2001 from extraction wells MW-54, EW-10, EW-11, EW-12, EW-13A, EW-15, EW-16, EW-19, EW-20B, EW-20C, and the PGCS.

In-Situ Vapor Extraction (ISVE) System - Off-Site Area

Heritage has begun installation of the conveyance piping from the blower shed to the ISVE wells. Additional equipment will be mobilized to help straighten the HDPE pipe.

Heritage expects to return to the site on December 3, 2001 when they will have a "line-tamer" on site to straighten the pipe.

Fliteway Technologies will be on site the week of December 3, 2001 to work on the blower shed. Fliteway has notified MWH that the blower is scheduled to arrive within the next two weeks. The thermal oxidizer is scheduled to be delivered during the first part of January 2002.

#### Drum Disposal Activities

All drums have been transported to the Onyx facility in Port Arthur, Texas. Certificates of Destruction have been received for all overpacked drums which were sent to the Onyx facility. The storage rolloff boxes have been decontaminated and returned to their owner. The drum disposal pad in the On-site Area has been triple-washed by MEI. MWH will evaluate the feasibility of adding a discharge pipe from the drum pad to a drainage swale north of the site fence to reduce infiltration.

#### Long-Term Groundwater Monitoring Plan

A separate meeting was held following the weekly on-site construction meeting to discuss the long-term groundwater monitoring plan.

#### ORC South Area Pilot Study

The final round (Round 6) of sampling should be completed by November 30. Five wells are currently being sampled. The results of this round should be available in mid-December. The initial results from the study appear positive.

#### Look Ahead (Important Dates)

- **December 3-21, 2001** – Heritage Industrial Services on site to install ISVE yard piping.
- **December 6, 2001** – Weekly Site Construction Meeting at 10 AM.
- **December 13, 2001** – Weekly Site Construction Meeting at 10 AM. Site Open House following meeting.

#### Next Weekly Construction Meeting

The next weekly construction meeting is scheduled for Thursday, December 6, 2001.

CAD/PJV/TAL/TMK  
J:\209\0601 ACS\0202 MWA PM\Meeting Minutes 11-29-01.doc

FAX

**MWH**  
MONTGOMERY WATSON HARZA

Date: 4-Dec-01

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X	Chris Daly; MWH	(630) 836-8959
X	Chad Smith; MWH	(630) 836-8959

From: Peter Vagt

Following please find the minutes from the November 15, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, November 29, 2001 at the construction trailer at the ACS Site.

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**MWH**

MONTGOMERY WATSON HARZA

Date: 11-Dec-01

 27755 Diehl Road  
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 Warrenville, IL 60555  
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<input checked="" type="checkbox"/>	Duke Trenkamp; HIS	(317) 541-9436
<input checked="" type="checkbox"/>	Scott Hernly; HIS	(317) 541-9436
<input type="checkbox"/>		
<input type="checkbox"/>		

From: Peter Vagt

Following please find the minutes from the December 6, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, December 13, 2001 at the construction trailer at the ACS Site.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR DECEMBER 6, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** December 6, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Chris Daly - MWH  
Travis Klingforth - MWH  
Todd Lewis - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S.EPA (via phone)  
Leigh Peters - BVSPC  
Scott Hernly - HIS  
Duke Trenkamp - HIS

**TOPICS:**

Health and Safety Summary

Heritage Industrial Services (HIS) staff went through site specific health and safety training on November 29, 2001. HIS has not yet documented regular daily health and safety meetings, though they will begin doing so on December 7, 2001.

HIS encountered an underground electrical conduit that connects the blower shed and the Barrier Wall Extraction Wells on December 6, 2001. The electrical lines in the conduit had been turned off for safety; therefore there were no injuries. The lines will be repaired. No other health and safety issues occurred during the past week.

HIS were reminded that no smoking will take place inside the Off-Site Area, even in vehicles, and safety glasses will be worn at all times inside the Off-Site Area.

Groundwater Treatment Plant (GWTP) Status

The GWTP continues to operate normally. The GWTP resumed discharging to the wetlands on December 3, 2001 after a routine change-out of the carbon in the granular activated carbon (GAC) filters. The power to the Off-Site Area was turned off on December 3, 2001 to eliminate the potential for electrical contact during the ISVE installation activities scheduled to be completed by HIS. When power is turned on again

in the Off-Site Area, influent flow to the GWTP will resume at 50 gallons per minute (gpm). Currently, the treatment flow is 25 gpm.

#### Barrier Wall Extraction Systems (BWES) Upgrades

Slusser Company re-sodded the area around extraction well EW-20C on December 4, 2001. To correct the meeting minutes from the November 29, 2001 meeting, extraction well EW-13A was not on-line. Also, influent water was being pumped from MW-56, not MW-54. The BWES upgrades are now complete and this item will be removed from future meeting agenda.

#### In-Situ Vapor Extraction (ISVE) System - Off-Site Area

HIS has performed three days of yard piping installation to date. The remainder of the job, including line trenching, well connection, and compaction testing is still expected to last three weeks.

#### Drum Disposal Activities

Onyx Environmental Services has confirmed that all material shipped to their Port Arthur, Texas facility for disposal is in conformance with the waste profiles that had been established. Manifests continue to be received from Onyx for the material contained in roll-off boxes.

#### ORC<sup>®</sup> South Area Pilot Study

The sixth and final sampling round of the South Area Pilot Study was conducted on November 29 and 30, 2001. After the final analytical data is received from the laboratory, a summary report will be prepared. The field-work for this item is now complete and it will be removed from future meeting agendas.

#### Looking Ahead

No work will take place on the site on December 24, 25, and 31, 2001 or January 1, 2002 due to the holiday season. The regular working schedule will resume on January 2, 2002.

#### Next Weekly Construction Meeting

The next weekly construction meeting is scheduled for Thursday, December 13, 2001. The meeting is scheduled for 10 am, and the Holiday Open House will follow from noon to 5 pm.

TMK/RAA/TAL/PIV

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102 miles  
round trip.

**WEEKLY CONSTRUCTION MEETING AGENDA  
FOR DECEMBER 13, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** December 13, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**TOPICS:**

Corporate H+S inspection today (MWHC).

Health and Safety Summary (Tom Tinics)

GWTP Status (Lee Orosz)

power on yesterday, wells on today.

Extr. W10 - crossed wires to pump - repaired.

In-Situ Vapor Extraction (ISVE) System - Off-Site Area (Todd Lewis/HIS)

- Yard piping installation by Heritage Industrial Services
- Anticipated schedule - pressure tests = OK.

13- SVE wells - some hooked up.

Grades back to wells = OK.

air sparging wells - need

Drum Disposal Activities (Todd Lewis)

- Summary of Activities
- Manifests - about  $\frac{1}{2}$  destroyed by onyx.

MW: recommends testing clay.

a part before connecting.

blower shed - Wells hooked up and venting into shed, door open to vent.

Looking Ahead (Todd Lewis)

- Site Hours during Holiday Season - next week will prob. know.

bags on order for stubs in shed.

MW here Dec 26.

Next Weekly Construction Meeting

- Thursday, December 20, 2001

Blower arrival = ?

Early JAN for thermal oxidation unit.

EPA comments on H+S: last week: \* Heritage not prepared for + tech. concerns. "Level C" work, etc. (From 12/4/01)

\* K.P. area piping - grade reversed.

(1) Heritage - expected to remain in clay layer. Went thru clay layer, hid with calculated depth so went thru clay layer. - MW.C. re-shot elev. + calc. grades, <sup>now</sup> remain in clay layer.

(2) Have H+S officer. (3) FIT testing up-to-date. (4) Tool-box safety mtgs. = back to daily.

Construction Meeting Agenda

December 13, 2001 Meeting

ACS NPL Site

(5) MWHC.

had checked submittals.

(6) No traps in SVE piping.

(7) Land bridge - swale. - temporary when final cover in place - will not be there.



**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR DECEMBER 13, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** December 13, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Robert Adams - MWH  
Chris Daly - MWH  
Travis Klingforth - MWH  
Lee Orosz - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S.EPA  
Leigh Peters - BVSPC  
Scott Hernly - HIS  
Toby Parish - HIS

**TOPICS:**

Health and Safety Summary

Michael Grasso, an MWH corporate health and safety officer, visited the site on the morning of December 13, 2001 and performed a regularly scheduled site health and safety audit. No deficiencies were noted.

During the weekly construction meeting, Tom Tinics addressed various health and safety issues discussed regarding the work of Heritage Industrial Services (HIS). Many of these issues were also included in a recent memo sent by Black & Veatch and the U.S. EPA to MWH on December 7, 2001. The topics in the memo included HIS' use of exclusion zones and daily toolbox health and safety meetings, and the process of respirator fit testing for local union laborers. The issues raised in the memo had also concerned MWH, who resolved many of them in a separate meeting with HIS on December 6, 2001. Since that meeting, MWH has worked with HIS to continue to improve their overall health and safety performance. As of December 12, 2001 HIS has brought on site a full-time health and safety officer.

Groundwater Treatment Plant (GWTP) Status

The GWTP continues to operate normally. The power to the Off-Site Area was turned off on December 3, 2001 to eliminate the potential for electrical contact during the ISVE installation activities scheduled to be completed by HIS. Power was turned on again in

the Off-Site Area on December 12, 2001, and the Off-Site Area extraction wells are scheduled resume pumping on December 14, 2001. The GWTP continues to discharge through wetlands discharge structures 2 and 3.

#### In-Situ Vapor Extraction (ISVE) System - Off-Site Area

HIS has completed approximately 33% of the yard piping installation as of December 13, 2001. MWH is conducting quality assurance to confirm that the piping pressure testing and piping slopes are performed and installed according to design. The remainder of the job, including line trenching, well connection, and compaction testing is expected to last one to two more weeks.

The memo mentioned above sent by Black & Veatch and the U.S. EPA on December 7, 2001 also addressed the design of the ISVE conveyance piping. The topics in the memo included the submittal of HIS' work plan, the design of pipe slopes, and the proposed use of a land-bridge over the swale immediately south of the blower shed. Tom Tinics also briefly addressed these issues. He confirmed that the conveyance piping is being installed as designed in the Final Remedy and the use of a land-bridge over the drainage swale will be considered in the final cap design. Rob Adams stated that HIS was using the implementation plan included in their proposal and that a separate work plan was not developed. Black & Veatch confirmed that they had received the proposal.

#### Drum Disposal Activities

Onyx Environmental Services has confirmed that all material shipped to their Port Arthur, Texas facility for disposal is in conformance with the waste profiles that had been established. No more activities are scheduled to occur on the site. Manifests continue to be received from Onyx for the material contained in roll-off boxes.

#### Looking Ahead

No work will take place on the site on December 24, 25, and 31, 2001 or January 1, 2002 due to the holiday season. The regular working schedule will resume on January 2, 2002.

#### Next Weekly Construction Meeting

The next weekly construction meeting is scheduled for Thursday, December 20, 2001.

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**FAX****MWH**

MONTGOMERY WATSON HARZA

Date: 18-Dec-01

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From: Peter Vagt

Following please find the minutes from the December 13, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, December 20, 2001 at the construction trailer at the ACS Site.

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR DECEMBER 20, 2001 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** December 20, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site - Site Trailer

**ATTENDEES:**

Chris Daly - MWH  
Travis Klingforth - MWH  
Tom Tinics - MWH  
Peter Vagt - MWH  
Kevin Adler - U.S.EPA (via phone)  
Leigh Peters - BVSPC  
Toby Parish - HIS  
Scott Hernhy - HIS

**TOPICS:**

Health and Safety Summary

As mentioned in last week's meeting, an MWH corporate site health and safety inspection was conducted on December 13, 2001 by Michael Grasso. The written report has been received and no deficiencies were noted.

Heritage Industrial Services (HIS) continues to conduct and document their morning toolbox safety meetings. Toby Parish, an HIS corporate health and safety officer, continues to daily monitor site health and safety. No injuries or other health and safety incidents have occurred in the last week.

Groundwater Treatment Plant (GWTP) Status

The GWTP continues to operate normally. The three On-Site Barrier Wall Extraction System (BWES) wells (EW-10, EW-17, EW-18), five of the Off-Site BWES wells (EW-11, EW-19, EW-20, EW-20B, EW-20C), and the Perimeter Groundwater Extraction System (PGCS) are currently bringing influent to the GWTP.

In-Situ Vapor Extraction (ISVE) System - Off-Site Area

As of the end of the day on December 19, 2001 HIS had completed all of the trenching work for the installation of the conveyance lines connecting to the 42 ISVE wells. All connections had been completed for the 30 wells in the Off-Site Containment Area (OFCA). The 3 air sparge wells in the OFCA will be connected when the required saddles arrive on site. All 42 of the wells are expected to be connected to the blower

shed by the end of the day December 21, 2001 and HIS expects to be substantially complete with the piping installation activities by December 28, 2001 if weather permits. Compaction and compaction testing is scheduled to begin December 21, 2001.

#### Drum Disposal Activities

Original manifests and destruction certificates continue to be received from Onyx Environmental Services for the drum disposal activities performed in November 2001.

#### Looking Ahead

MWH will be retrieving and replacing a damaged fiber optic cable which connects the GWTP and the Off-Site blower shed in the near future. The cable is run through a conduit located 5-6 feet below grade. The conduit will likely be excavated in the northwestern portion of the Off-Site Area near the railroad tracks.

As previously discussed, the Site will be closed to subcontractors on December 24, 25 and December 31, 2001 and January 1, 2002 due to the Holiday Season. Regular hours will resume on January 2, 2002.

#### Next Weekly Construction Meeting

The next weekly construction meeting will be held on Thursday, December 27, 2001.

TMK/PIV/TAL

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FAX

**MWH**  
MONTGOMERY WATSON HARZA

Date: 21-Dec-01

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X	Chris Daly; MWH	(630) 836-8959
X	Duke Trenkamp; HIS	(317) 541-9436
X	Scott Hernly; HIS	(317) 541-9436

From: Peter Vagt

Following please find the minutes from the December 20, 2001 Construction Meeting.

The next meeting is scheduled for 10:00 AM on Thursday, December 27, 2001 at the construction trailer at the ACS Site.

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Number of pages, including cover: 3